ADMINISTRATION REPORT

OF THE

PUBLIC WORKS DEPARTMENT,

BOMBAY PRESIDENCY,

FOR THE YEAR

1874-75.

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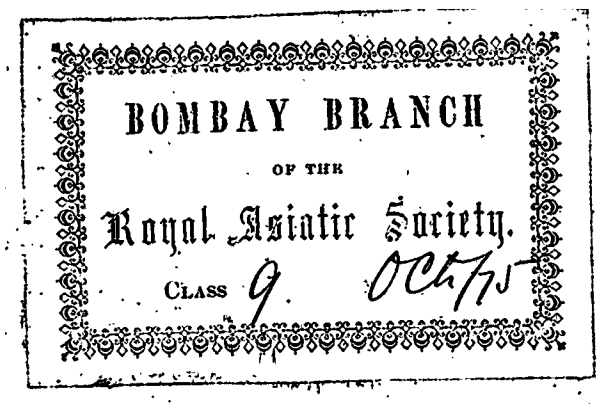

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ADMINISTRATION REPORT

OF THE

PUBLIC WORKS DEPARTMENT, BOMBAY,

FOR THE YEAR 1874–75.

ACCOUNTS.

The detailed statements attached to this report show the grant and outlay on the several main heads and sub-heads of Budget Service during the year ending 31st March 1875. The grant, exclusive of Establishment, amounted in round numbers to nearly 89 lakhs, against which an outlay of 70 lakhs was incurred, showing a saving of 19 lakhs, of which nearly 2 lakhs lapsed from Imperial, Ordinary, 7½ lakhs from Agricultural, 1½ lakhs from Provincial, 4¾ lakhs from Contributions, and 3¼ lakhs from Local Funds.

2. *Imperial, Ordinary.*—The lapse of 2 lakhs on works under this head occurred as follows:—Rs. 85,000 on Military Works, chiefly on the barracks at Belgaum and Colaba, and on the temporary lines for a Native Regiment at Baroda; Rs. 45,000 on Civil Buildings, chiefly on the Pátri Railway; and Rs. 50,000 under the head Miscellaneous Public Improvements, Kurrachee Harbour Works.

3. *Imperial, Agricultural.*—The saving of 7½ lakhs on Irrigation Works has occurred as follows:—Over 5¼ lakhs under Extraordinary, 1½ lakhs under Ordinary, Rs. 35,000 under Repairs, and ½ a lakh under Tools and Plant. There has been an excess of Rs. 35,000 under Establishment. The savings under Original Works have occurred principally on the following works:—

Extraordinary.

Hathmati Canal	...	Rs. 48,000
Panjar River Works (Mukti Nulla)	...	„ 23,000
Palkhair Project	...	„ 6,000
Lakh Canal ...	...	„ 5,000
Muta „ ...	...	„ 3,25,000
Ekruk Tank	...	„ 30,000
Krishna Canal	...	„ 10,000
Sukkur „	...	„ 22,000

Ordinary.

Wozar Project	...	Rs. 21,000
Mhaswa Tank	...	„ 10,000
Maini „	...	„ 10,000
Yerla Canal	...	„ 8,000
Western Nara	...	„ 8,000
Desert Canal	...	„ 9,000
Bigari „	...	„ 47,000

Provincial.—The lapse of 1½ lakhs under this head is due to short outlay on works, thus:—nearly 1 lakh on Civil Buildings, the principal items of savings being Rs. 23,000 on the Salt Buildings in connection with the Pátri Railway, and Rs. 24,000 on the High and Small Cause Courts, Bombay; ½ a lakh on Communications, and Rs. 10,000 on Miscellaneous Public Improvements, chiefly on the masonry wall in front of the Dutch Bunder at Surat. Under head Establishment there has been an excess of Rs. 24,796.

5. *Contributions.*—The expenditure on works executed from this source has been 2¾ lakhs, the greater part of which has been included under Provincial. The principal items of contribution works are the University Library and Clock Tower, Rs. 58,416; Female Train-

ing College, Ahmedabad, Rs. 10,514; Elphinstone High School Rs. 91,495; European and Indo-European School at Kurrachee, Rs. 10,448; and masonry bridges at Kolhápur and Udgaon, Rs. 52,134.

6. The actual Toll realizations amounted to Rs. 5,50,239, against which Rs. 4,71,994 have been written off on account of expenditure during the year incurred on the repairs of Provincial lines of roads, leaving a balance of Rs. 78,245 to the credit of Deposits.

7. *Local.*—Of the saving of 3½ lakhs, ½ a lakh is under the head Civil Buildings, School-houses; 1½ a lakh under Communications, chiefly on the bridge on the Tapti River, and a lakh under Miscellaneous Public Improvements, chiefly on works connected with the Sonapore Drain.

8. The total expenditure, inclusive of Establishment during the year, has been about 90½ lakhs, made up as follows:—

Imperial	...	Rs. 45,85,991
Provincial	...	„ 30,55,389
Contributions	...	„ 7,80,480
Local	...	„ 6,33,561
		Rs. 90,55,421

9. The cost of Establishment has been Rs. 20,57,747, which gives a percentage of 29·40 on the outlay in India of Rs. 69,97,674; but if the expenditure in England on account of Imperial, Ordinary and Extraordinary, Rs. 30,557, be added to the outlay in India, it will give a percentage of 29·27.

I.—MILITARY.

I.—FORTIFICATIONS.

1. **Bombay.**—The permanent defences have again been suspended during the whole year, pending the decision of Government on the recommendations made by Colonel Sir W. F. D. Jervois, R.E., after his official visit to Bombay for that purpose in 1871.

II.—CANTONMENTS.

2. **Na'sik.**—The work under this heading was completed in the last year, and the unexpended balance sanctioned for the current year has been appropriated to collecting metal on the main bazaar roads, and improving them. Completed.

Roads and drains in the new Bazaar at Deoláli.

Estimated amount	... Rs. 10,600
Expenditure during the year	... „ 815
Total expenditure	... „ 10,598

3. Seeds of various descriptions of forest trees, such as jack, mango, teak, jambool, sandal and kuveet, &c., have been sown, and have grown to a considerable height. The seedlings and plants have been watered throughout the year, and are in a healthy state. Completed (up to the sanctioned amount.)

Forming a Nursery for trees for the Deoláli Cantonment.

Sanctioned amount	Rs. 500
Expenditure during the year	„ 489

4. **Ahmedabad.**—This culvert is being erected in the place of the old barrel drain, which was washed away during the last rainy season; it is of 8 feet span, semi-circular arch, height of abutments to springing 15 feet. The superstructure was raised 15 feet. In progress.

A culvert of 8 feet span on the site of the broken barrel drain on the Camp and Shaibaug road at Ahmedabad.

Estimated amount	... Rs. 4,322
Expenditure during the year	... „ 2,677

III.—ACCOMMODATION FOR TROOPS.

5. **Bombay.**—On the plinths constructed in 1868-69, for upper-storied barracks, six semi-permanent barracks, and their subsidiary buildings, are now being erected, their construction having been begun in July last. Each of the six barracks contains 2 dormitories, each 73 feet long, by 25½ feet broad, with 2 non-commissioned officers' quarters between them; each set of quarters consisting of two rooms, one, 16¾ feet by 15¾ feet, and the other, 16¾ feet by 9½ feet, a partition, 12 feet high, dividing them. A bath-room, 8¼ feet by 6½ feet, is also provided for each of the quarters, and there is a covered verandah, 15 feet wide, on all four sides of every barrack. Each of the barracks has been designed to accommodate 36 privates, and two non-commissioned officers, making in all 216 of the former, and 12 of the latter, and it is intended that they should be occupied by the Royal Artillery. The accommodation, as designed, is rather in excess of that according to the standard plan, and it has lately been arranged to place 24, instead of 18, men in each of 9 of the 12 large rooms, leaving 3 of the rooms available for canteen, orderly room, and office. Each of the barracks is provided with the following out-buildings, which are connected with the main buildings by covered passages:—1st, a lavatory, 25½ feet long by 21 feet broad, and 9 feet high to the bottom of the tie beams, including 2 bath-rooms, each 9 feet by 7½ feet, and a shower bath-room 9 feet by 5 feet internal dimensions; 2nd, a latrine, 14¼ feet, by 12¼ feet high to the bottom of the tie beams; 3rd, a cart shed, 12 feet by 9 feet by 9¾ feet high to the bottom of the tie beams; 4th, a sweeper's shed, 9¼ feet by 8 feet by 8¾ feet high to the bottom of the tie beams; 5th, a temporary urinary, 12 feet by 7½ feet by 7 feet high to the bottom of the tie beams; and, lastly, three cook-houses,

Erecting six semi-permanent barracks, and their subsidiary buildings, at Colaba.

fitted with ovens and boilers, are also provided, and a meat shed. The out-houses of No. 6 barrack are placed, unlike the others, under one roof, the site available there being limited, and the existing plinths being so near to the Royal Artillery Hospital as to make it undesirable to erect the requisite buildings upon them. The walls of the buildings consist of teak framing, filled in with brick nogging; the roofs are tiled; the floors of asphalte, and all the rooms in the main buildings have teak plank ceilings. The barracks, and their subsidiary buildings, are almost finished.

Amount of estimate for semi-permanent barracks, including subsidiary buildings	Rs.	2,26,706
Expenditure	„	1,54,919

Removing and re-building Hospital servants' sheds at Colaba.

6. The old sheds have been removed, but they have not been re-built, the site not having been made available.

Amount of estimate	Rs.	3,752
Expenditure during the year	„	302

Extra hospital accommodation for females near the Royal Artillery Hospital at Colaba.

7. The southern wing of the Sanitarium Hospital at Middle Colaba has been pulled down, and re-erected near the Royal Artillery Hospital at Upper Colaba, affording additional accommodation for 17 female patients. The old female hospital was intended for 5 patients, and thus the total accommodation now available of this description is for 22 patients. The excess was owing to the addition having been made in two portions, instead of all in one, as estimated for. Work completed.

Amount of estimate	Rs.	5,213
Expenditure during the year...	„	5,498

Upper-storied quarter-guard, cells, and lock-up at Colaba.

8. The quarter-guard and lock-up are intended each for 12 men, with cells, and the requisite out-buildings attached, the dimensions, &c., being as follows:—The guard-room is 41½ feet long, by 23½ feet broad, and 18 feet high to the bottom of the joists, with an open verandah, 11½ feet wide, all round, on the ground floor; and above it is the lock-up, 42 feet long, by 24 feet broad, and 18 feet high to the bottom of the tie beams, with an open verandah, 11½ feet wide, all round. The cells, 6 in number, each 13 feet by 10 feet by 16½ feet to the top of wall, with a verandah 9 feet wide all round. Three bath-rooms, each 6 feet by 5 feet, a wash-room 20 feet by 15 feet, and a urinary 10 feet by 8 feet, are provided all under one roof, and a privy 14½ feet by 12 feet, containing four seats, to be approached from the main building by a covered passage. The foundations and plinths of all the buildings have been finished; the superstructure of guard-room, cells, and lavatory carried to about three-fourths of the entire height, and almost all the wood-work required for roofing, &c., collected at the site.

Amount of estimate	Rs.	37,956
Expenditure during the year	„	12,098

Additions and alterations to the plunge bath at Colaba.

9. A covering of corrugated iron (20 B.W.G.), secured with extra iron fastenings, on king post trusses, supported on posts 6 inches square, embedded 4 feet in the masonry of the bath, has been added. The roof follows the slope of the floor of the bath. The posts have been fixed within the width of the step which runs round the bath, so as to decrease the span as far as practicable, without decreasing the area of the deeper part of the bath. All wood-work is of teak. The gangway, 132 feet long, and 3 feet wide, leading to the bath, has been improved by raising it 2 feet higher where it meets the platform of the bath, which has also been raised 2 feet higher than it was before. The old 15 inches wide wooden benches on the western platform, for the bathers to sit upon when dressing, have been removed, and re-fixed 2 feet higher. Another platform, extending 3 feet 4½ inches, just half way from the higher range of benches to the edge of the bath, has been constructed. Completed.

Amount of estimate	Rs.	2,563
Expenditure during the year	„	2,672

Certain Government buildings at Colaba.

10. Sundry additions and alterations have been made to bungalows Nos. 62A, 63, 64, 64A, 66, 67, 68, 69, 73, 74, 75, 76, 77, and 78 to adapt them for quarters for non-commissioned officers of the Royal Artillery.

Amount of estimate	Rs.	2,856
Expenditure during the year	„	2,989

11. **Aden.**—The Native Infantry Hospital was one of the few remaining buildings in camp provided with a jowlee roof. During the past year this roof was removed, and in lieu of it a chunam terraced roof was substituted, consisting of squared teak timber, iron girders, and concrete terrace over the main wards and surgery. The verandahs, which average 17 feet 6 inches in breadth in front and two sides, and an open verandah in rear, have been provided with a covering of Taylor's tiles, supported on a framework of squared teak timber throughout.

Substituting pucka for jowlee roofs to Native Infantry Hospital, with subsidiary buildings.

Amount of estimate	Rs.	20,394
Expenditure during the year	„	19,747

12. This building was commenced towards the close of the year 1873-74, and completed in 1874-75. It has supplied a want which was very much felt.

Canteen for the Garrison Battery of Royal Artillery.

Amount of estimate	Rs.	13,397
Expenditure during the year	„	7,102
Total expenditure	„	13,196

13. Considerable improvements have been carried out to these buildings, rendering them, in the opinion of the Medical authorities, suitable to their purpose. The floors of the female hospital have been asphalted, and a new lying-in-ward, and hospital store-room, provided.

Improvements to Artillery Hospital, including Female Hospital, in Camp.

Amount of estimate	Rs.	6,874
Expenditure during the year	„	6,136

14. **Dharwar.**—Completed as far as was advisable in 1874-75. Will be finished after the embankments have subsided in the rains of 1875.

Roads, &c., Native Infantry Lines.

Estimated amount	Rs.	5,963
Expenditure during the year	„	2,697

15. Masonry steining completed. This well has been sunk through argillaceous schist, and is 60 feet deep. As only 3 feet of water accumulates at night, the well must be deepened.

Well near Native Infantry Bazaar.

Estimated amount	Rs.	1,933
Expenditure during the year	„	759

16. Completed. Both have turned out good wells: one, 80 feet in depth, had 18 feet of water on the 31st March; the other, 50 feet in depth, had 25 feet of water.

Two wells, Native Infantry Lines.

Estimated amount	Rs.	2,653
Expenditure during the year	„	2,469

17. Both bund and waste weir have been nearly completed. The work will be finished before the rains set in.

Raising bund, tank for Native Infantry Lines.

Estimated amount	Rs.	4,565
Expenditure during the year	„	2,445

18. Nearly completed.

Quarter-guard, new Native Infantry Lines.

Estimated amount	Rs.	5,545
Expenditure during the year	„	4,264

19. **Belgaum.**—The project has been completed, with the exception of the erection of the quarter-guard and cells. The existing quarter-guard and cells, with the additions ordered by Government, will afford all the accommodation necessary.

Infantry Barracks.

Estimated amount	Rs.	7,62,176
Expenditure during the year	„	44,411
Total expenditure	„	7,30,616

Roads and drains round Infantry Barracks.

20. Completed. These works answer their purpose excellently, as was proved by experience during the past monsoon.

Estimated amount	...	Rs. 3,119
Expenditure during the year	...	„ 2,631

Artillery Barracks.

21. Completed, with the exception of the erection of the plunge bath, which is in progress. The deficiency of the water supply at the site has caused much difficulty with regard to this work.

Estimated amount	...	Rs. 5,61,797
Expenditure during the year	...	„ 25,775
Total expenditure	...	„ 5,63,540

Roads and drains round Artillery Barracks.

22. Completed. These works have answered their purpose very well.

Estimated amount	...	Rs. 2,975
Expenditure during the year	...	„ 2,581

Hospital Quarters.

23. The new quarters for the hospital serjeants, Royal Artillery, and for the three European apprentices, have been completed.

Estimated amount	...	Rs. 9,436
Expenditure during the year	...	„ 3,052
Total expenditure	...	„ 8,177

School-room, Coffee shop, &c.

24. **Satára.**—This building was intended for the accommodation and convenience of the European soldiers quartered at Satára; but, owing to the expression of an intention of removing a portion of the detachment, which consists of two companies, the work was stopped after the superstructure had been raised six feet, and most of the material had been collected; of this material, the greater portion has been utilized for other work.

Estimated amount	...	Rs. 21,744
Expenditure during the year	...	„ 5,766

Constructing a single-storied barrack at Purandhar.

25. **Poona District.**—The new barrack is a substantial stone building, with double-tiled roof on cut teak supports, and deal planking under tiles. Floors paved with cut-stone; verandahs closed. Openings for doors and windows furnished with glazed shutters inside, and fixed venetians outside. The barrack will accommodate 32 men, and two non-commissioned officers. Excess over original estimate is due to extra work having been ordered, and which will be completed so as to admit of the barrack being occupied in May.

Estimated amount	...	Rs. 20,670
Expenditure during the year	...	„ 20,421

Constructing Artificers' Shop for the Royal Artillery at Kirkee.

26. **Poona and Kirkee.**—Two Artificers' Shops, on the standard plan, have been constructed in a permanent manner. The shops are required for the collar-makers and wheel-wrights of the Batteries of the Royal Artillery stationed at Kirkee. Each of the shops is 30 feet by 20 feet by 16 feet, with open verandahs in front and rear, 11¾ feet in width; stone walls; double-tiled roofs; floors, stone pavement.

Estimated amount	...	Rs. 16,765
Expenditure during the year	...	„ 15,054

Constructing four lavatories, &c., for the Royal Artillery at Kirkee.

27. Lavatories and latrines, four of each, on the standard plan, have been constructed for the use of the men occupying the eight single-storied barracks at Kirkee. The lavatories are provided each with eight basins, water laid on, and fittings complete, also six foot pans; and, in the side rooms, shower baths. The latrines are on the dry-earth principle.

Estimated amount	...	Rs. 17,211
Expenditure during the year	...	„ 15,369

Constructing a military prison at Poona.

28. The enclosure wall of the prison, which is 3,650 feet in length, has, during the year, been carried up 7 feet, and a temporary punishment shed built. Of the buildings within the enclosure, the guard-house, hospital, chapel, hospital lavatory, and cook-house

have had the walls raised 6 feet. One range of cells has the walling raised 10 feet, and the work-shed pillars 9 feet in height, with pavement half finished. The contract for the work extends over a period of eighteen months, and there is no prospect of the work in connection with the military prison being completed before February 1876.

Estimated amount	... Rs. 2,06,897
Expenditure during the year	... „ 51,609
Total expenditure	... „ 62,400

Gymnasium for the European troops at Poona.

29. This work was finished in 1872-73. The expenditure incurred during the year 1874-75 was on account of balance due to the contractors, which was not paid before on account of litigation between two parties.

Estimated amount	... Rs. 46,442
Expenditure during the year	... „ 6,796
Total expenditure	... „ 41,952

Lavatories for the Ghorepoorie barracks at Poona.

30. The lavatories for the Ghorepoorie barracks, which were constructed last year, have been fitted with washing apparatus, complete in every respect, and water laid down.

Estimated amount	... Rs. 31,279
Expenditure during the year	... „ 8,798
Total expenditure	... „ 24,797

Certain improvements to the roofs of the barracks at Ghorepoorie.

31. The old louvred ridge ventilators on the roofs of the 12 large barracks at Ghorepoorie were found to admit dust and rain, and have been removed. In place of these, 6 iron cylindrical ventilators have been fixed to the ridge of each barrack. Wooden sunshades, 5 feet wide, have been fitted to the rear verandahs of the barracks, which, being 10 feet under eaves, and facing east, admitted excessively the morning sun. This defect has now been remedied.

Estimated amount	... Rs. 8,297
Expenditure during the year	... „ 7,249

Fitting up the two lavatories at the right flank hospital at Wanowrie.

32. Four additional rooms, each 8 feet by 5 feet, for shower baths, have been constructed in connection with the existing wash-houses; new washing tables, with tops of Goolburga slabs, on cast iron frames, provided; and water has been laid on to basins, and baths, with all fittings complete.

Estimated amount	... Rs. 2,606
Expenditure during the year	... „ 2,259

Constructing open paved drains for carrying off water from the lavatories of the patcherries at Poona and Kirkee.

33. Open paved drains have been constructed to carry off waste water from bath-rooms and cook-houses, in rear of the patcherries, to cisterns, from which it is removed and supplied to trees planted in the vicinity.

Estimated amount	... Rs. 4,137
Expenditure during the year	... „ 3,929

Providing moveable louvred frames over the doors and windows in the 4 blocks of patcherries at Ghorepoorie.

34. Moveable louvred frames have been fitted into the arched openings over front doors and windows, and the rear doors of all the quarters in 4 blocks of patcherries at Ghorepoorie, thereby rendering the ventilation of the dwellings more complete.

Estimated amount	... Rs. 2,604
Expenditure during the year	... „ 1,660

Buildings for the Sappers at Kirkee.

35. The buildings constructed in connection with the Sappers' Lines at Kirkee may be briefly described as under:—A workshop, 136½ feet by 45 feet, by 13 feet under tie beams, with partition walls and pillars dividing the space for carpenters, blacksmiths, painters, &c. There are two store-rooms at each end of the shed, each room 19¾ feet by 12 feet. A pontoon shed, 100 feet by 25 feet, and 10 feet under eaves. A school-room; two rooms each 18 feet by 20 feet, with a 14 feet archway between them, and a verandah, 8 feet wide, all round. Quarter-guard, store-room, and lock-up, and cells on standard plans. Hospital, with out-buildings on standard plan, for Native Infantry; two wards, each 45½ feet by 20 feet, by 13½ feet under tie beams; and quarters, on standard plan, for serjeant major, school master,

and quarter master serjeant; also a conductor's quarters; and quarters for four serjeants, four 1st, and four 2nd corporals. The whole of the buildings have been constructed in a very substantial manner; walls of neatly coursed rubble and lime; floors paved with cut-stone; roofs double-tiled, on cut teak supports.

Estimated amount	... Rs. 1,13,396
Expenditure during the year	... „ 84,975

Hospital at Deoláli.

36. **Na'sik.**—The hospital and its subsidiary buildings are as follows:—The centre portion consists of a day room, 20 feet by 23 feet 6 inches; two rooms for assistant apothecaries, 14 feet 3 inches by 23 feet 6 inches, and 12 feet 6 inches by 23 feet 6 inches, respectively; a steward's room 14 feet 3 inches by 23 feet 6 inches; a receiving room, 12 feet 6 inches by 23 feet 6 inches; Surgery store-room, 11 feet 9 inches by 11 feet 6 inches. The right flank is occupied by two wards, 61 feet 6 inches by 23 feet 6 inches, and 10 feet 3 inches by 23 feet 6 inches, to accommodate 16, and 2, patients, respectively. The left flank consists of one ward, 46 feet by 23½ feet, for 12 patients; and 4 rooms for apprentices, two 12 feet by 23 feet 6 inches, and 12 feet 6 inches by 23 feet 6 inches, under the main roof, and two 12 feet 6 inches by 11 feet 6 inches, and 12 feet 3 inches by 23 feet 6 inches, respectively, in the back verandah. The height of tie beam above floor line is 20 feet. Completed.

Estimated amount	... Rs. 1,00,000
Expenditure during the year	... „ 3,717
Total expenditure	... „ 99,616

Hospital serjeants' quarters at Deoláli.

37. This building consists of two rooms, one 16 feet by 16 feet, and the other 16 feet by 10 feet, having verandahs, 11 feet by 6 feet wide, in front and rear. A portion of rear verandah is enclosed to form a bath-room, 10 feet by 10 feet. The masonry is completed, and roof in progress.

Estimated amount	... Rs. 5,008
Expenditure during the year	... „ 4,282

Quarter Master's Store at Deoláli.

38. This building consists of 4 rooms, 14 feet by 20 feet, 42 feet by 20 feet, 14 feet by 10½ feet, and 14 feet by 8 feet; the first room being for the storage of 4 single-poled tents, and two sepoys' tents, required for infectious diseases during the trooping season, and for the storage of oil lamps, cooking utensils, and other copper ware during the non-trooping. The second room is for the storage of ordnance articles, viz., saleetas, black bags, water bottles, and other miscellaneous stores, for which suitable racks have been provided. The third room is for the storage of bed cases, straps, &c., arranged on shelves; and the fourth room is for a tailors' shop. The building has a verandah 8 feet wide. Completed.

Estimated amount	... Rs. 9,914
Expenditure during the year	... „ 9,317

New works in connection with the housing of the European Troops at Baroda.

39. **Surat and Broach.**—Additions and alterations have been made to several existing buildings to suit the requirements for accommodating European troops at Baroda. Latrines and wash-houses have been also erected. In progress.

Estimated amount	... Rs. 5,898
Expenditure during the year	... „ 3,139

A Gymnasium shed for the European troops in Camp Ahmedabad.

40. **Ahmedabad.**—This work, which was in progress last year, has been completed this year. The shed, measuring 75 feet by 30 feet on the inside, has been erected, and in connection therewith the following was subsequently added:—

1. Gymnastic apparatus at a cost of ... ... Rs. 1,350
2. Sheds, one for dressing room, and the other store room, and a partition wall, at a cost of ... ... „ 1,769

Estimated amount	... Rs. 3,560
Expenditure during the year	... „ 1,151
Total expenditure	... „ 3,532

Artificers' Workshops for Royal Artillery, Camp Ahmedabad.

41. The building, which has been completed, consists of 2 rooms, each 30 feet by 20 feet, with a verandah on both sides, 10 feet in width, supported on masonry pillars.

Estimated amount	... Rs. 7,200
Expenditure during the year	... „ 6,409

Guard-room, lock-up, and solitary cells with lavatory and urinary, for Royal Artillery, Camp Ahmedabad.

42. Guard-room for 7 men, with lock-up for 6, and solitary cells for 3, prisoners, have been constructed, with lavatory, latrine, &c., according to standard plan. Completed.

Estimated amount	...	...	...	Rs. 20,779
Expenditure during the year	...	...	...	„ 19,760

New barracks, Mount Aboo. New roads and paths.

43. **Deesa and Aboo.**—The new roads and paths on Aboo have been completed.

Wells in the vicinity of barracks.

Two new wells have been sunk during the past official year, and both of them give a good supply of water.

Remedying the defects in the roofs in connection with the flues of the chimneys of certain military buildings.

This work has been completed.

Alterations to the hospital.

The alterations, which have been completed, consisted in removing the continuous roof-ventilators, and closing up the roofs to prevent the in-drift of fog and rain, re-roofing the detached bath-rooms, and bath-rooms of hospital serjeants' and apothecary's quarters, improving the female ward, and other minor alterations.

Lavatories for barracks.

Completed. Each barrack is now provided with a small lavatory in one of the end verandahs of the building. The lavatory consists of a small room for private ablution, and an enclosed space sufficient for a 2-basin washing-stand. The floors have teakwood gratings over their whole area.

Road from the barracks to the standing Camp.

The road is about 3,755 feet long, 18 feet wide, with a well consolidated moorum surface. Dry stone drains, and revetment walls, have been provided where necessary. The work will be shortly completed

Estimated amount	...	...	...	Rs. 7,63,668
Expenditure during the year	...	...	...	„ 18,136
Total expenditure	...	...	...	„ 6,49,338

Pendalls for 1st and 2nd Regiments, Sind Horse.

44. **Jacobabad.**—The pendalls for the 2nd Regiment have been completed, and four whole, and one half, pendalls for the 1st Regiment.

Estimated amount	...	...	...	Rs. 96,822
Expenditure during the year	...	...	...	„ 37,315
Total expenditure	...	...	...	„ 87,201

Protective works to keep out floods.

45. These works, consisting chiefly of earthen embankments on the southern and eastern faces of the cantonments, were completed in June last, and such damage as they suffered from the heavy floods was repaired in March.

Estimated amount	...	...	...	Rs. 25,520
Expenditure during the year	...	...	...	„ 24,643

IV.—ORDNANCE.

Re-constructing the Siege Train Gun Shed in the Grand Arsenal.

46. **Bombay.**—The work is in progress. The walls on three sides of the building are nearly completed, and the framework of the roof has been prepared.

Amount of estimate	...	...	...	Rs. 5,491
Expenditure during the year	...	...	...	„ 1,098

Quarters for the Lascars attached to the arsenal at the Isthmus.

47. **Aden.**—Three blocks of buildings, each measuring 153 feet by 23 feet external dimensions, with latrines for men and women, have been provided on a site selected for that purpose in the large Isthmus position.

Amount of estimate	...	...	...	Rs. 12,204
Expenditure during the year	...	...	...	„ 12,204

Magazine to hold 200,000 rounds of Snider ammunition near the Infantry Barracks, Steamer Point.

48. A magazine, to hold 200,000 rounds of Snider ammunition, excavated in the hill side, has been erected in proximity to the quarter guarde of the detachment of European Infantry stationed at Steamer Point. Hitherto the ammunition of this detachment was stored in the arsnal, a distance of six miles from their head-

quarters. It measures 24 feet by 8 feet interior dimensions, and has a vaulted bomb-proof covering.

Amount of estimate	... Rs. 5,209
Expenditure during the year	... „ 4,036

49. **Poona and Kirkee.**—This magazine, intended for the safe storage of a large quantity of small arms ammunition, has been constructed within the large magazine enclosure at Kirkee. It consists of six compartments, each 27 feet by 12 feet by 7½ feet by 7 feet, communicating with one another by two arched openings in the partition-walls, which are 2½ feet thick; roof segmental; brick and lime vaulting over each compartment; floors teak boards with ventilation underneath; walls stone and lime; wainscotted with deal plank; double doors to each compartment, 4 feet by 8 feet, protected overhead by a weather boarding, which forms a verandah; boarded ramps leading to each doorway; fixtures and fastenings of copper. Lightning rods have been fixed.

Constructing six small arms ammunition magazines at Kirkee.

Estimated amount	... Rs. 14,930
Expenditure during the year	... „ 14,913

50. A new engine-room and boiler shed have been constructed in the Poona Arsenal, for the Gun Carriage Factory.

Adapting the Smithy in the Poona Arsenal to receive a 12 horse-power steam engine.

Estimated amount	Rs. 2,842
Expenditure during the year	„ 2,889

51. The buildings, &c., in connection with the powder proof range at Kirkee are :—

Constructing the gun range for the proof of powder in connection with the small arms ammunition factory at Kirkee.

1. Magazine, 17½ feet by 14 feet by 9 feet.
2. Store and filling room, 30 feet by 20 feet by 15 feet by 20 feet.
3. Ballastic house, 2 rooms, each 22 feet by 20 feet.
4. Gun platform and shed for 8 inches gun.
5. Screens.
6. Butts.
7. Telegraph communication between screens and ballastic house.
8. Tramway between filling room and gun-shed.
9. Wooden platform between magazine and filling room.
10. Small wooden watch house.
11. A privy.
12. Wire fencing enclosing the whole.

The expenditure of Rs. 24,843, against a sanction of Rs. 30,710, represents very fairly the state of progress at the close of the official year.

Estimated amount	... Rs. 30,710
Expenditure during the year	... „ 24,843

V.—COMMISSARIAT.

52. **Aden.**—The following additions, which appear to have been emergently needed6 were carried out, viz., a petty store-room, 10 feet by 11 feet - inches; yeast-room, 24 feet by 15 feet, and a tank for the stor age of condensed water, have been provided.

Additions to the Government Bakery.

Amount of estimate	... Rs. 4,349
Expenditure during the year	... „ 4,232

53. **Ahmednagar.**—This consists of two (2) sets of blocks of buildings, viz., one set of blocks in two portions for sheep and bullocks, each containing a tiled shed and drinking trough in its own enclosure. The sheep-shed was nearly completed; the bullock-shed was being roofed. The coping of the drinking trough remains to be completed. In the other set of blocks, the shed for dressing carcasses was ready for roofing, and the shed for hanging carcasses in had its walls half built.

A cattle yard and a slaughter yard for the Commissariat Department.

Estimated amount	... Rs. 28,394
Expenditure during the year	... „ 23,804

54. **Na'sik.**—The following accommodation has been provided; viz., one shed for horned cattle, 106½ feet by 20 feet; two sheds for sheep, one 70 feet by 12 feet, and the other 31 feet by 12 feet: one fodder yard of 5,300 square feet area; two slaughter stands, each 30 feet by 15 feet; two gallows, each 15 feet by 8 feet; one hanging shed in two compartments, one 25 feet by 16 feet for mutton, and one 20 feet by 16 feet for beef; a well, 8¼ feet in diameter, provided with corbels; one gutter and cesspool to receive the blood from slaughter stands, hanging shed, and gallows; roads and paths of moorum with a layer of sand; slaughter yard compound wall of uncoursed rubble stone and lime, with three gates, iron barred, and 10 feet in width; an open water-course from well to slaughter yard, and sheep shed. Completed.

Constructing a slaughter yard at Deoláli.

Estimated amount	Rs.	20,608
Expenditure during the year	„	10,407

55. This building consists of two stories: the lower floor contains one office room, 12½ feet by 11 feet; three ovens, two large, each 14 feet by 9 feet and one small, 5 feet by 9 feet, having space in front, 56 feet be 8 feet, for tables and kneading machine. The upper floor, to which access is obtained from the lower floor by means of a stone stair-case, consists of ont bread-room 10 feet by 11 feet, one biscuit-room 17 feet by 22 feet, and one room for drying loft and flour stores, 30 feet by 22 feet interior dimensions, divided off by teak plank party tion walls. The out-houses consist of fuel shed, 20 feet by 15 feet, and a latrine, 15 feei by 6½ feet, which has not been constructed, the site not having been determined as yet. The main building and the out-houses are enclosed by a rectangular compound wall, 398 feet by 225 feet interior dimensions. Nearly completed.

Bakery, with out-houses, at Deoláli.

Estimated amount	Rs.	14,836
Expenditure during the year	„	13,607

56. **Deesa and Aboo.**—This project consists of a bakery, attendants' quarters, 14 feet by 12 feet, and chowkidars' quarters, 10 feet by 8 feet, in an enclosure 120 feet by 100 feet; a slaughter-house, 19 feet by 12 feet, and hanging room, 16 feet by 12 feet, in an enclosure 50 feet by 40 feet; and a sheep shed, 20 feet by 12 feet, in an enclosure 50 feet by 40 feet. The bakery is adapted for supplying bread to 300 men, and consists of a bake-house, 22½ feet by 11¾ feet, with 2 ovens 8 feet by 6 feet; a kneading-room, 24 feet by 9¾ feet; a yeast room, 10 feet by 8 feet; a bread store, 12½ feet by 8 feet, all on the ground floor; a mill room, 24½ feet by 20½ feet; a store-room, 23½ feet by 20½ feet, on the upper floor, which is approached by a stair-case 3 feet 6 inches wide. The ovens, flues, and furnaces are lined with fire-bricks. The whole of the work included in this project will, it is hoped, be completed by the rains. These works are being executed out of the funds provided for "New barracks, Mount Aboo."

Bakery and slaughter-house at Aboo.

VII.—STAFF.

57. **Na'sik.**—The main building consists of three rooms, viz., dressing, dining, and bed rooms. There are two dressing-rooms in the end verandah, and two bath-rooms in the rear verandah, the remaining portion of which is open, and 10 feet wide, also an open verandah in front, 10 feet wide in the clear. The centre, or drawing-room, is 18 feet by 16 feet, and the other two rooms, viz., dining and bed rooms, are each 16 feet by 15 feet interior dimensions. The dressing-rooms are 17 feet by 8 feet each, and the bath-rooms 8¼ feet by 8¼ feet each. The servants' quarters consist of six rooms, each 10 feet by 10 feet, for servants; one cook-room 12 feet by 10 feet, and a stable for two horses. Completed.

Quarters for the Pay Master at Deoláli.

Estimated amount	Rs.	8,405
Expenditure during the year	„	455
Total expenditure	„	8,385

58. This building originally consisted of a main room, 15 feet by 15 feet interior dimensions, surrounded by a verandah, 10 feet wide, containing bed, dressing, and bath rooms; but now consists of the following accommodation: Three rooms, viz., dressing, dining and bed rooms in the main building; two dressing-rooms in the end verandah, and two bath-rooms in the rear verandah, the remaining portion of which is open, and 10 feet wide; also an open verandah in front, 10 feet wide in the clear. The centre, or drawing-room, is 18 feet by 16 feet, and the other two rooms, viz., dining and bed rooms, are 16 feet by 16 feet each interior dimensions. The dressing-rooms are 17 feet by 8¼ feet each, and the bath-rooms 8¼ feet by 8¼ feet each. The servants' quarters consist of six rooms, each 10 feet by 10 feet for servants, one cook-room 12 feet by 10 feet, and a stable for two horses. Completed.

Improvements to the quarters for the Adjutant at Deoláli.

Estimated amount	...	...	...	Rs.	5,084
Expenditure during the year	...	...	...	„	4,611

Staff Sergeants' Quarters at Decláli.

59. These quarters afford accommodation for 5 staff serjeants, viz., 3 Class A, and 2 Class B. The quarters for Class A are so arranged that one is placed in the middle, and one at either end of the building. The quarter in the centre of the building consists of a sitting-room 16 feet by 16 feet, a bed-room 10 feet by 10 feet, under the main roof, a dressing-room 16½ feet by 10 feet, and a bath-room 10 feet by 10 feet in the rear verandah; and the end quarters, each consist of a sitting room, 16 feet by 16 feet, in the main building, a bed-room, 17 feet by 10 feet, a dressing-room, 16¾ feet by 10 feet, and a bath-room, 10 feet by 10 feet, in the side rear verandah; and the intermediate quarters are Class B, and each consists of a sitting-room, 16 feet by 16 feet, in the main building, a bed-room, 16½ feet by 10 feet, in the rear verandah, and a bath-room, 10 feet by 8 feet, in rear of the bed-room. The building has an open verandah in front, 10 feet wide in the clear. The masonry of the main building is half completed, and that of the out-houses is one-third completed. In progress.

Estimated amount	...	...	...	Rs.	26,481
Expenditure during the year	...	...	...	„	12,276

IX.—NAVAL AND MARINE BUILDINGS.

Removing the old ramparts, and filling in the ditches in the Dockyard.

60. **Bombay.**—The whole of the ramparts on the south side of the docks, with the exception of a portion occupied by the iron water tank, godowns, &c., has been removed, and the ditch has been filled in with the materials obtained therefrom. The surplus materials have been removed to the low ground near the Bankshall, and khandkees, and other large stones, have been disposed of to the best advantage of Government. Completed.

Amount of estimate	...	...	..	Rs.	5,511
Expenditure during the year	...	...	...	„	3,288

XI.—WATER-SUPPLY.

Substituting large pipes for those leading to certain Government buildings at Colaba.

61. **Bombay.**—As frequent complaints were made about the deficient supply of water to the barracks and patcherries, &c., at Colaba, the original pipes, which were only from ¾ inch to 1½ inches diameter, and too small for the three or four tanks each had to supply, have been altered to 2 inches diameter, with 2 inches connections with the main Vehar water pipe. The ½ and ¾ inch branch pipes to the tanks have been removed, and 1 inch pipe substituted. The work is nearly completed.

Amount of estimate	...	...	...	Rs.	4,704
Expenditure during the year	...	...	...	„	2,872

Kussuf Valley water-supply project, Camp Aden.

62. **Aden.**—This work has been uninterruptedly in progress during the past year. A fairly good foundation throughout was secured for main Bund No. 3, upon which the foundations were laid, and the superstructure of the bund, to a total height of 26 feet, completed during the year. Shield Bund No. 1 was also completed at a total cost of Rs. 6,367. No rain having fallen at Aden (except a trifling fall of 1¼ inches in the month of August last) during the past year, no opportunity has been afforded of judging of the success of this scheme.

Amount of estimate	...	...	...	Rs.	2,39,400
Expenditure during the year	...	...	...	„	83,348
Total expenditure	...	...	...	„	1,01,622

II.—CIVIL BUILDINGS.

I.—REVENUE.

Mámlatdár's Kutcherry, Honáwar.

63. **Kanara.**—The additions and alterations to the existing building have been completed in a satisfactory manner.

Estimated amount	...	...	...	... Rs.	3,175
Expenditure during the year	...	...	...	... „	3,117

64. **Dharwar.**—Completed. The building consists of one large room, and an enclosed verandah. The roof of this building is planked, over which are the usual tiles. Half-inch teak planking is laid down the slope, and carried on purlins about two feet apart, instead of the ordinary plan of one heavy purlin; numerous secondary rafters are used, and teak battens. This roof is cheaper than the usual sort, and it is believed that it will prove both cooler and more water-tight.

Record room for the Collector's Office.

Estimated amount	...	...	...	... Rs.	11,012
Expenditure during the year	...	...	...	... „	5,312
Total expenditure	...	...	...	... „	10,014

Mámlatdár's Kutcherry, Ron.

65. The Munsif's Court at Ron has been converted into a Mámlatdár's Kutcherry.

Estimated amount	...	...	...	... Rs.	3,764
Expenditure during the year	...	...	...	... „	645
Total expenditure	...	...	...	... „	3,698

Sir Kárkun's Office, Vingorla.

66. **Belgaum.**—Completed.

Estimated amount	...	...	...	... Rs.	6,988
Expenditure during the year	...	...	...	... „	4,661
Total expenditure	...	...	...	... „	4,981

Mámlatdár's Kutcherry, Athni.

67. In progress.

Estimated amount	...	...	...	... Rs.	18,245
Expenditure during the year	...	...	...	... „	7,972

68. **Ratna'giri.**—This building is described in paragraph 62 of the Administration Report for 1873-74, and has been completed, and handed over to the Revenue Department.

Mámlatdár's Kutcherry, Deogarh.

Estimated amount	...	...	...	... Rs.	26,486
Expenditure during the year	...	...	...	... „	9,813
Total expenditure	...	...	...	... „	23,663

69. **Poona District.**—This new kutcherry has been built in accordance with the standard plan. The walls are of stone and lime, coursed rubble, fine jointed; roof cut teak throughout, and double-tiled. The building was commenced in September 1874, and completed in February 1875. The work was carried out by contract. Accommodation, as follows, has been provided: Mámlatdár's office, a space 43 feet by 23 feet by 16 feet, divided into three compartments; Fouzdar's office, a room 16 feet by 16 feet by 14 feet, on the left; Record room, 45½ feet by 16 feet by 14 feet, on the left; Registrar's office, 15 feet by 16 feet by 14 feet, on the left; Treasury (with well in floor) 12 feet by 16 feet by 14 feet, on the right; also store-room, 8 feet by 16 feet by 14 feet; lock-up for men, 25 feet by 16 feet by 14 feet; lock-up for men, 12½ feet by 16 feet by 14 feet; lock-up for women, 16 feet by 16 feet by 14 feet; and detached ryots' shed, 30 feet by 11½ feet by 9 feet; store-room, 10 feet by 10 feet by 9 feet.

Mámlatdár's Kutcherry at Junnar.

Estimated amount	...	...	...	... Rs.	19,706
Expenditure during the year	...	...	...	... „	5,014
Total expenditure	...	...	...	... „	19,732

70. **Ahmednagar.**—Completed.

Additions and alterations to the Collector's Kutcherry.

Estimated amount	...	...	...	... Rs.	12,634
Expenditure during the year	...	...	...	... „	1,183
Total expenditure	...	...	...	... „	11,156

71. **Northern Konkan.**—At Kelvi Máhim on the coast, 6 miles from Pálghar, a station on the B. B. & C. I. Railway, 58 miles from Bombay, a large and commodious kutcherry has been commenced. The Police lines to accommodate 20 men, and 2 officers, have been completed, as also has accommodation for peons, with cook-room, ryots' shed, and store-room, and Fouzdar's kutcherry. The compound wall surrounding the buildings is also nearly completed, and the foundations of the main kutcherry, occupying the central position, two-thirds filled in.

Kutcherry at Máhim.

Estimated amount	...	Rs. 43,541
Expenditure during the year	...	„ 16,169
Total expenditure	...	„ 27,119

72. At Mokhára in the Wára Taluka, a record room has been constructed, attached to the Mámlatdár's kutcherry.

Record room at Mokhára.

Estimated amount	...	Rs. 2,156
Expenditure during the year	...	„ 2,098

73. At Mhár a new record room has been constructed for the Mámlatdár's kutcherry, the records hitherto having been stored in the first floor of the kutcherry, an old native built building, and unequal to the weight of the records.

Record room at Mhár.

Estimated amount	...	Rs. 2,438
Expenditure during the year	...	„ 2,412

Collector's offices at Alibág.

74. Completed.

Estimated amount	...	Rs. 16,562
Expenditure during the year	...	„ 1,908
Total expenditure	...	„ 15,716

Quarters for Peons at Khatchar.

75. At Khatchar, one mile from Pen, on the road from Pen to Dhurumtur, quarters for peons in the Salt Department have been constructed.

Estimated amount	...	Rs. 1,545
Expenditure during the year	...	„ 1,541

76. **Na'sik.**—The main building consists of a kutcherry proper, 40 feet by 18 feet interior dimensions, with a verandah 10 feet wide in front. There are two wings, projecting right and left, in rear of the kutcherry, with a verandah 6 feet wide in front; one is divided into seven compartments, viz., two lock-ups for males, one 16 feet by 16 feet, and the other 16 feet by 13 feet; lock-up for females, 16 feet by 14 feet; two store-rooms, each 16 feet by 8 feet, and treasury room and Registrar's office, each 16 feet by 12 feet inside measurements; and the other consists of 4 rooms, viz., Mámlatdár's Court room, 16 feet by 12 feet, Fouzdar's office, 16 feet by 15 feet, and two record rooms, one 45½ feet by 16 feet, and the other 16 feet by 15 feet inside measurements. Police lines consist of 12 rooms, each 12 feet by 10 feet, in two blocks, each of 6 rooms, on each side of the rear compound gate, having a verandah 6 feet wide in front, with loop holes in rear wall and banquettes; two rooms for mounted police of the above dimensions; two rooms, each 12 feet by 12 feet, for head constable in the rear face of the wall. Peons' houses consist of two rooms, 20 feet by 10 feet; ryots' shed, 30 feet by 11½ feet, with store-room, 10 feet by 10 feet, in front compound wall, with ditch for defence. Completed.

Mámlatdár's Kutcherry at Kalwan.

Estimated amount	...	Rs. 34,193
Expenditure during the year	...	„ 10,334
Total expenditure	...	„ 33,218

77. The Mámlatdár's kutcherry, with out-houses, is in exact accordance with the standard plan. The kutcherry proper is 46 feet by 23 feet inner dimensions, with a raised dais for the Mámlatdár; there are two wings projecting right and left of the kutcherry, with a verandah in front, the former divided into 5 compartments, viz., two lock-ups for male prisoners, one 25 feet by 16 feet, to accommodate 10, and the other 15 feet by 12½ feet, for 5; lock-ups for females, 16 feet by 16 feet; store-room, 16 feet by 8 feet, and treasury room, 16 feet by 12 feet inside measurements; and the latter consists of 3 rooms, viz., Fouzdar's kutcherry, 16 feet by 15 feet, record room, 46½ feet by 16 feet, and Registrar's office, 16 feet by 15 feet inside measurements.

Mámlatdár's Kutcherry at Chándor.

78. These are in 12 rooms, 12 feet by 10 feet each, with a verandah 6 feet wide in front, with loop-holes in rear walls and banquette; two rooms for mounted police, and a stable for 2 horses; two rooms, each 12 feet by 12 feet, for head constable in the rear face of the wall; peons' quarters, ryots' shed, and a store-room in front compound wall, with a trench outside. Completed.

Police quarters.

Estimated amount...	...	...	...	Rs. 35,658
Expenditure during the year	...	...	...	„ 16,155
Total expenditure	...	...	...	„ 31,183

79. **Khandesh.**—The kutcherry was finished during the year under report, it containing Mámlatdár's kutcherry, 46 feet by 23 feet; Fouzdar's office, 18 feet by 16 feet; record room 42½ feet by 16 feet; treasury room, 12 feet by 16 feet. Prisoners' cells were omitted. Police lines for 12 men have also been constructed.

Mámlatdár's Kutcherry and Police Lines at Bhusáwal.

Estimated amount	...	...	...	Rs. 26,508
Expenditure during the year	...	...	...	„ 8,158
Total expenditure	...	...	...	„ 19,536

80. **Surat and Broach.**—The bungalow consists of three rooms on the ground-floor, the centre room being 20 feet by 16 feet, and the two side rooms being 20 feet by 14 feet. The bungalow is provided with a verandah 7 feet wide in front, and 8 feet wide in rear. In the upper floor is a room reached by a staircase outside the building. The servants' quarters consist of 3 rooms, 10 feet by 8½ feet, with a masonry sink provided in each. Completed.

District Collector's bungalow at Maldha.

Estimated amount	...	...	...	Rs. 8,038
Expenditure during the year	...	...	...	„ 8,218
Total expenditure	...	...	...	„ 8,346

81. These lines consist of one block, containing sixteen rooms, 10 feet by 12 feet each, and a passage, 8 feet wide, in the centre of the building; verandahs in front and rear, 5 feet by 4½ feet wide; superstructure of burnt brick and lime; roof of double tiles over the lines, and single tiles over the verandahs; both roofs are of cut teak rafters, battens, &c.; doors and windows of teakwood plank; floor of earth. Completed.

Police lines for salt depôt at Surat.

Estimated amount	...	...	...	Rs. 6,616
Expenditure during the year	...	...	...	„ 5,544
Total expenditure	...	...	...	„ 6,104

Police lines for salt depôt at Broach.

82. These lines are similar to those erected at Surat this year. Completed.

Estimated amount	...	...	...	Rs. 7,340
Expenditure during the year	...	...	...	„ 6,718
Total expenditure	...	...	...	„ 7,150

83. This building consists of two rooms, one 20 feet by 16 feet, and the other 16 feet by 10 feet inside dimensions, with a verandah front and rear, 9 feet 6 inches wide, running the whole length; superstructure of this building is of burnt brick and lime; roof over main building of double tiles, and that of verandah single tiles; doors and windows of teakwood. Completed.

Office for salt depôt at Surat.

Estimated amount	...	...	...	Rs. 3,383
Expenditure during the year	...	...	...	„ 3,013
Total expenditure	...	...	...	„ 3,232

84. This building consists of four rooms of 16 feet uniform width, and 20, 10, 16 and 8 feet in length, respectively. A verandah, 9 feet 6 inches in width, runs along the front and rear of the building, the roof being supported upon teakwood posts, 5 inches by 5 inches. Cloth ceiling is provided to all rooms. A detached cook-room, 8 feet square, is constructed at a distance, with a ventilating roof and a doorway. Completed.

Office for salt depôt at Broach.

Estimated amount	...	...	...	Rs. 6,790
Expenditure during the year	...	...	...	„ 6,790
Total expenditure	...	...	...	„ 6,820

Salt buildings, Ahmedabad.

85. **Ahmedabad.**—The following buildings of the Salt Department, which were commenced in the last year, have been completed in this year :—

At Khárághora.

1.—*Salt Office.*—It consists of two rooms, one 24 feet by 16 feet, and the other 16 feet by 16 feet interior dimensions, with a verandah on three sides, 9 feet 3 inches wide, and a water room, 8 feet by 8 feet, in the corner.

Estimated amount	Rs.	5,676
Expenditure during the year	„	2,293
Total expenditure	„	5,149

2.—*European Superintendent's Bungalow.*—Consists of two rooms, 16 feet by 16 feet interior dimensions, surrounded with a verandah on three sides, 11 feet 3 inches wide. The rear verandah contains two rooms at each end, viz., bath-room and store-room, 11 feet 6 inches by 10 feet, and 10 feet by 10 feet, respectively.

Estimated amount	Rs.	5,433
Expenditure during the year	„	571
Total expenditure	„	4,928

3.—*Out-houses to the European Superintendent's Bungalow.*—These are in two blocks. The former contains cook-room, 10 feet by 10 feet, and two rooms, 10 feet by 8 feet, for servants. The latter contains store-room, 15 feet by 10 feet, and stable, 10 feet by 10 feet Each block has a verandah, 6 feet wide, in front.

Estimated amount	Rs.	2,185
Expenditure during the year	„	1,271
Total expenditure	„	2,511

4.—*Police Line for* 18 *men.*—The line consists of 20 rooms, each 12 feet by 10 feet nterior dimensions, with verandahs 8 feet 9 inches in front and rear.

Estimated amount	Rs.	8,269
Expenditure during the year	„	6,008
Total expenditure	„	9,736

5.—*Four Salt Chowkies.*—Each chowkie consists of a room, 18 feet by 12 feet by 6½ feet, and is raised 5½ feet from the ground on a wooden platform, carried on teak piles; the walls and roof of the chowkie are of teak planking, ½ inch thick inside, and galvanized corrugated iron sheets outside.

Estimated amount	Rs.	7,102
Expenditure during the year	„	3,203
Total expenditure	„	6,555

6.—*Guard House*—In the Runn, contains one room, 25 feet by 14 feet by 10 feet, and is of the same description as the chowkies.

Estimated amount	Rs.	2,767
Expenditure during the year	„	1,150
Total expenditure	„	2,447

The sites for the undermentioned buildings, which were erected in the new town called "Agria's Village," were made over to this department in June 1874. The buildings have been commenced and completed in this year :—

1.—*Chowdee*—Consists of three rooms; the two end rooms are 20 feet by 12 feet each, and the centre one is 20 feet by 9 feet, with a verandah, 9½ feet wide, in front.

Estimated amount	Rs.	2,310
Expenditure during the year	„	2,572

2.—*Dispensary and Residence for Hospital Assistant*—Consists of three rooms under main roof, one, 16 feet by 14 feet, for Dispensary, and two, 16 feet by 12 feet, for the Hospital Assistant, with verandahs in front and rear. Store-room and cook-room are enclosed in rear verandah.

Estimated amount	Rs.	4,810
Expenditure during the year	„	4,413

3.—*Police Line for 4 men.*—It consists of four rooms, three of which are 12 feet by 10 feet for sepoys, and the other 16 feet by 12 feet for a naik. The block has a verandah 7½ feet wide in front.

Estimated amount	Rs.	2,331
Expenditure during the year	„	2,689

4.—*Residence for Native Officer*—Contains two rooms, 16 feet by 17 feet, and 16 feet by 11 feet, with verandahs in front and rear, 7 feet wide. Cook-room and bath-room are enclosed in rear verandah.

Estimated amount	Rs.	3,076
Expenditure during the year	„	2,537

Salt Office, Ahmedabad.

86. This building consists of two rooms, one 20 feet by 16 feet, and the other 16 feet by 12 feet interior dimensions, with a verandah all round, 8 feet wide. It has a water room, 8 feet by 8 feet, on the east side. The work was commenced last year, and completed this year.

Estimated amount	Rs.	4,261
Expenditure during the year	„	3,418
Total expenditure	„	4,131

Salt Police Lines, Ahmedabad.

87. Consists of 18 rooms, each 12 feet by 10 feet, with a verandah, 8 feet wide, in front and rear. The two end rooms are for havildar and naik; the remaining 14 rooms for the peons. This work was commenced last year, and completed this year.

Estimated amount	Rs.	6,763
Expenditure during the year	„	4,168
Total expenditure	„	6,574

Deputy Collector's bungalow at Mirpur.

88. **Bigari Division.**—The building contains six large rooms, besides bath-rooms, &c. It has been constructed of more lasting materials than have hitherto been used in Upper Sind, and it is hoped that the cost of the annual repairs, which are, as a rule, heavy, will be reduced.

Estimated amount	Rs.	9,806
Expenditure during the year	„	3,700
Total expenditure	„	9,700

Printing Office of the Commissioner in Sind at Karáchi.

89. **Karachi.**—To afford increased accommodation, the existing building was enlarged.

Estimated amount	Rs.	2,719
Expenditure during the year	„	2,719

Kardarate at Sehwan.

90. The kutcherry has been completed. Blocks of police pendalls for 22 men are in progress.

Estimated amount	Rs.	22,729
Expenditure during the year	„	6,774
Total expenditure	„	18,767

Deputy Collector's bungalow at Sujawal.

91. Completed. It is an upper-storied building, and includes, under the same roof, an office, court, and record rooms.

Estimated amount	Rs.	13,234
Expenditure during the year	„	6,375
Total expenditure	„	13,674

II.—POST OFFICE.

New General Post Office.

92. **Bombay.**—This building has been fully described in the Report for the year 1868-69. The iron porches, referred to in the last year's Administration Report, have been erected, and the building has been fully completed, and has been in occupation since 1st December 1872. On account of an excess of Rs. 31,250 owing to Ransome's Patent stone, the expenditure against the estimate should be considered as (Rs. 6,25,450 — Rs. 31,250) = Rs. 5,94,200.

Estimated amount	Rs.	5,99,992
Expenditure during the year	„	18,371
Total expenditure	„	6,25,450

98. The building has been fully described in the report for 1872-73, and is now occupied and completed. First floor walls, floors, and roofs have been completed. The building has been supplied with water, and thoroughly drained. Latrine completed. The site has been cleansed, and a road constructed, leading to the Wellington Road, from the back entrance of stables.

New Post Office stables.

Estimated amount	...	Rs. 63,924
Expenditure during the year	...	„ 26,893
Total expenditure	...	„ 63,916

94. **Dharwar.**—Completed.

Post Office.

Estimated amount	...	Rs. 5,295
Expenditure during the year	...	„ 4,954

95. **Sholapur.**—Materials were collected, and preparations made to commence construction in anticipation of the site being made over to the Public Works Department in due time.

Post Office, Barsi.

Estimated amount	...	Rs. 1,927
Expenditure during the year	...	„ 776

III.—TELEGRAPH.

96. **Bombay.**—This building has been fully described in the Report for the year 1871-72. It was completed and handed over for occupation on the 20th April 1874. The building has been furnished with appropriate furniture during the current year.

New Telegraph Offices.

Estimated amount	...	Rs. 2,45,840
Expenditure during the year	...	„ 14,761
Total expenditure	...	„ 2,44,697

97. This building, in modern Gothic style, was designed by Mr. W. Paris, Architect to Government, and in plan is a simple rectangle, 148 feet 9 inches long, and 52 feet wide in the rear, for kitchen, water-closets, and servants' quarters. It will have three floors affording accommodation for 52 inmates. On the ground floor there is to be a dining-hall, 50 feet by 24 feet, a library 16 feet 6 inches by 24 feet, and a dormitory, 33 feet by 24 feet, for 8 persons. On the first and second floors are dormitories for 44 persons; the remainder is devoted to the necessary domestic offices. The building presents a frontage to the Esplanade Main Road. The material to be used in the elevation of the building are Sewree blue stone facing, with dressings and carving in Coorla and Porebunder stones. The foundations and plinth have been completed, and the walls raised to a height of about 2 feet 6 inches.

Signallers' quarters.

Estimated amount	...	Rs. 1,23,520
Expenditure during the year	...	„ 19,390

98. **Karachi.**—Each quarter (under one roof) consists of two rooms, 16 feet by 13 feet 6 inches, with one store-room, bath-room, and privy, and has an open verandah all round. Sanction for the work was received late, and nothing beyond the concrete foundation could be done. This work has lately been transferred to the Superintendent, Karachi Harbour Works.

Quarters for Indo-European Telegraph Staff at Manora.

Estimated amount	...	Rs. 6,555
Expenditure during the year	...	„ 334

IV.—GENERAL.

99. **Aden.**—Certain subsidiary accommodation, consisting of stabling and servants' quarters, was provided in lieu of the very temporary construction which formerly existed. The above completes all that can be required in this way.

Subsidiary accommodation in connection with the Residency.

Estimated amount	...	Rs. 3,287
Expenditure during the year	...	„ 3,293

100. **Bombay.**—A portion of the old wall to the west of the Asylum has been removed, and a new wall, 326 feet in length, and 50 feet further to the west, has been built. The dressed and rubble stone of the wall pulled down was used in constructing the new one, the additional stone required being obtained from the adjoining foreshore. Completed.

A new airing court in the Lunatic Asylum at Colaba.

Estimated amount	Rs. 5,974
Expenditure during the year	„ 3,486

Native General Hospital.

101. This building has been fully described in the report for the year 1870-71. The main and out-buildings were all completed, and handed over for occupation on the 8th April 1874.

Estimated amount	Rs. 3,67,494
Expenditure during the year	„ 29,924
Total expenditure	„ 3,67,465

Dead House, Jamsetjee Jejeebhoy Hospital.

102. This building consists of a large room, 30 feet by 18 feet, and a small one, 18 feet by 18 feet. It is faced externally with pointed blue stone random rubble. The roof is provided with dormers on four sides, and covered with Taylor's earthen-ware patent tiles, except a small portion over the centre of the roof, which is covered with glass tiles of the same pattern. The projecting eaves all round are supported on teak brackets. The floors are of asphalte. The building was commenced and completed during the year.

Estimated amount	Rs. 5,328
Expenditure during the year	„ 5,292

Additions and alterations to the quarters of the House Surgeon; Jamsetjee Jejeebhoy Hospital.

103. An upper story, consisting of two rooms, one 23¼ feet by 24½ feet, and the other 20½ feet by 24½ feet, each 11 feet in height, having a door in the partition for communication, has been built over the old House Surgeon's quarters. A staircase to approach the same has been fixed in the front verandah.

Estimated amount	Rs. 3,144
Expenditure during the year	„ 3,231

Additions and alterations to the European General Hospital, and adding a day-room to it.

104. A compound wall, 35 feet by 1½ feet by 8 feet, and railing, 21¼ feet by 8 feet, on the side and in the front, respectively, of the new female ward has been completed, and also a partition in the same has been erected. The whole of the foundations of the day-room are filled in. Six frames, with iron bars complete, for archways under the rear verandah of the hospital, are ready for fixing.

Estimated amount	Rs. 6,401
Expenditure during the year	„ 1,467

New Sailors' Home.

105. This building has been fully described in para. 100 of the Report for the year 1871-72. Walls of the first floor have been completed, Porebunder stone cornice has been fixed, and the floors of the second floor have been laid. First floor clerestory and roofs have been constructed, and covered walls of the second floor have been completed, Porebunder stone cornice has been fixed, as well as the joists of the flat roof of the second floor, and the clerestory walls have been commenced.

Estimated amount	Rs. 3,06,638
Expenditure during the year	„ 71,835
Total expenditure	„ 2,54,443

General Mews.

106. This building has been fully described in para. 129 of the Report for the year 1873-74. One wing is completed, and ready for occupation.

Estimated amount	Rs. 1,74,720
Expenditure during the year	„ 8,305
Total expenditure	„ 46,198

Furniture, Secretariat Office.

107. Gothic furniture in polished teak, inlaid with blackwood, from designs by Mr. Adams, Assistant Engineer, has been supplied as detailed below:—

Council Hall.

10 Circular ceiches.
1 Governor's chair.
1 Large table.
14 Councillors' chairs.
3 Chandeliers in Council Hall.

Library.

1 Large table in tiffin room.
1 do. Committee room.
8 Library shelves, 9 feet long.
12 do. 4 feet 6 inches long.
4 Book-stands.
2 Portfolio stands.
4 Moveable shelves.

Staircase Hall.

1 Stand to petition box.
1 Large designation board in front entrance.
1 Table for officers registering their names.
1 Letter box with 10 compartments.

Office.

4 Writing tables for Governor and Councillors.
5 Writing tables for Secretaries.
7 Circular tables.
13 Book cases and cupboards.
4 Reporters' tables, plain.
6 Waiting-room tables.
5 Couches lined with Morocco leather.
7 do. Chepatra leather.
6 Chairs with leather cushions.
50 Office chairs with arms.
24 Teapoys.
12 Wash-hand stands, with marble slabs.
4 do. on ground floor, without slabs.
12 Screens.
12 Towel horses.
10 Dressing tables with looking-glasses.
Record shelves, single and double, ground floor.
10 Catch-water basins.
5 Designation boards on upper floors.
2 Peons' benches.
4 Ladders for Hammals.
4 do. Mussals.
Iron Treasury in the Accountant General's Office.

Miscellaneous.

1 Double action pump.
1 Marble Tablet (Secretariat).
1 do. do. P. W. Department.
1 Steel barred fixed ladder to Tower Gallery.
1 Light rope railing to preserve turf in the Secretariat compound.

Estimated amount	Rs.	28,000
Expenditure during the year	„	9,868
Total expenditure	„	26,828

Civil Hospital, Karwar.

108. **Kanara.**—All the buildings sanctioned have been completed, and handed over to the Medical Department.

Estimated amount	Rs.	45,047
Expenditure during the year	„	16,576
Total expenditure	„	34,039

Dispensary, Haliyál.

109. This building has been completed, and handed over for occupation to the Medical Department.

Estimated amount	Rs.	5,667
Expenditure during the year	„	773
Total expenditure	„	5,425

Dispensary at Gokák. (Local Funds.)

110. **Belgaum.**—The work has been completed.

Estimated amount	Rs.	5,718
Expenditure during the year	„	3,472
Total expenditure	„	5,717

Bungalow for the Assistant Political Agent, Kolhápur (State Funds.)

111. **Kolha'pur.**—In progress

Estimated amount	Rs.	12,845
Expenditure during the year	„	3,267

112. **Poona and Kirkee.**—A fire-engine shed, 23 feet by 10 feet by 10 feet, has been constructed, and provided with 2 iron-trellis doors, each 7½ feet by 7 feet. A moorum road, 12 feet wide, has been made from the fire-engine shed to the road in front of the house, and 3 inch cast iron pipes have been laid round the house, with 12 hydrants. A fire-engine, with 4 lengths of suction hose, and 2 lengths of leather hose, with a branch and jet pipe, have been supplied complete and ready for use in every respect.

Constructing a Fire-engine shed, and laying 3 inch cast-iron pipes, with 12 hydrants, round the Government House, Gunnesh Khind.

Estimated amount	Rs.	4,728
Expenditure during the year	„	3,824

113. Two blocks of cells have been built; one consisting of 10 rooms, each 10 feet by 10 feet by 10 feet, for males, and one with 5 rooms, each 9½ feet by 10 feet by 8½ feet, for females, with 2 extra rooms, 10 feet by 10 feet, for female keeper. A range of servants' houses has also been built,—ten rooms, each 10 feet by 10 feet by 10 feet, with enclosed verandah in front. On the south side of the asylum, a latrine with 10 seats, for men, and on the west side of the asylum, a latrine with 5 seats for women, have been built, with dry earth sheds for conservancy arrangements.

Certain improvements to the Lunatic Asylum at Poona.

Estimated amount	Rs.	5,924
Expenditure during the year	„	5,914

114. The additions to the Photozincographic Office at Poona consist of a new drawing-room, which is 80 feet by 16 feet by 16 feet, with an open verandah, 9 feet wide, on the south side; the ends of the verandah have been enclosed to form 2 rooms, each 15 feet by 9 feet. The main room is provided with shelves. A store-room has also been built; it is 32 feet by 16 feet by 16 feet, and provided with shelves all round.

Additions to the Photozincographic Office at Poona.

Estimated amount	Rs.	9,823
Expenditure during the year	„	9,007
Total expenditure	„	9,020

115. **Ahmedabad.**—The funds for this work have been provided from the Provincial Budget. The funds allotted in 1871-72, for the restoration of this building, did not allow of the completion of the north side, which has been restored during the current year. Completed.

Completing the restoration of the Roza of Ranee Sipree on the Astoria road at Ahmedabad.

Estimated amount	Rs.	2,528
Expenditure during the year	„	2,410

V.—ECCLESIASTICAL.

116. **Poona and Kirkee.**—The new Presbyterian Chapel measures 56¾ feet by 21 feet in the nave; the vestry is 10 feet by 8 feet. The main walls are 17 feet 3 inches in height; those of the vestry 10 feet 9 inches. There is a porch in front of the entrance, 6 feet by 6 feet, and 9 feet in height. Light is admitted into the building by a quatre-foil window in the eastern wall, and 3 light lancet windows in the western; there are also 9 double lancet windows in the side walls. The walls are of uncoursed stone and lime, with rough quoins and cut stone buttresses, plastered inside, and white-washed, pointed with cement inside. Over the front gable a belfry has been provided, and there is a neatly dressed stone coping to the gable and side walls. Roof of corrugated iron, supported on cut-teak purlins, ornamental trusses and ¾ inch deal planking, varnished inside; ridging of sheet lead, fixed on ridge rolls; finials of iron, ornamental.

Constructing a new Presbyterian Chapel at Kirkee.

Estimated amount	Rs.	8,457
Expenditure during the year	„	8,399

117. A new burial ground has been enclosed near Holkar's Bridge, the space available being 600 feet by 300 feet; the wall is 7½ feet in height, with a coping of plaster and broken glass. A gateway (15 feet) and gate has been provided in the north wall, and a vestry, 12 feet by 8 feet, has been built inside the enclosure, near the entrance.

Additions to the Cemetery at Kirkee.

Estimated amount	...	Rs. 7,746
Expenditure during the year	...	„ 7,698

VI.—EDUCATIONAL.

118. **Bombay.**—The Fort Christian School, situated to the east of the new Telegraph Office, was commenced early in December last. The foundations of the building were filled in by the Trustees several years ago. The building is now estimated to cost about Rs. 76,000, out of which sum Government have contributed Rs. 10,000. The building is to have two upper floors, and on each floor there are to be two principal rooms, one 43 feet by 25 feet, and 25 feet by 15 feet, with a verandah, 8 feet wide, in front and rear. The rooms on the 1st and 2nd floors are to be partitioned off to suit the requirements of a school. On the south side, and in continuation of the back verandah, a store-room and latrines are to be built. On the north side, and at right angles to the main building, a range of out-houses is to be built, consisting of a godown, and a kitchen. The principal staircase is to be placed at the back, between the main building and the out-houses. The building has been designed by Mr. G. T. Molecey, F.R.I., B.A. The style adopted is Italian Gothic.

Fort Christian School.

Estimated amount	...	Rs. 75,294
Expenditure during the year	...	„ 5,500

119. The building has been fully described in the Report for the year 1868-69, and is now occupied. The building has been furnished with gas fittings and chandeliers, and other minor items.

University Senate Hall.

Estimated amount	...	Rs. 4,15,804
Expenditure during the year	...	„ 5,514
Total expenditure	...	„ 3,79,389

120. Gothic furniture, in polished teak, inlaid with black-wood, from designs by Mr. J. Adams, Assistant Engineer, has been supplied, as detailed below, from the contribution of Sir Cowasjee Jehangheer, Rs. 10,000:—

Furniture, University Hall.

1 Chancellor's Chair.
56 Teak ornamental benches, of 8 seats each.
166 Chairs.

Estimated amount	...	Rs. 9,946
Expenditure during the year	...	„ 9,934

121. This building has been fully described in para. 47 of the Administration Report of 1868-69, and has progressed satisfactorily: The building is nearly completed, with the exception of the 1st floor window sashes, and fixing the stained glass, which has not arrived from England. The remaining 10 feet height of the Clock-Tower, 2nd story, together with 3rd story, have been raised, and two floors laid. The 4th story Porebunder stone window sills, together with bases of window mullions, have been built, making a total height of 120 feet from the ground level.

University Library and Clock Tower.

Estimated amount	...	Rs. 5,28,093
Expenditure during the year	...	„ 58,415
Total expenditure	...	„ 3,68,977

122. The building has been fully described in the Report for the year 1872-73. The remaining portion of the masonry and cut-stone work of ground floor, and about half the framework of floor above it, were completed during the year. The masonry work and cut-stone work of the first floor have been commenced. More than half the cut-stone work of the 1st floor is ready for setting. The masonry work of the walls has been just commenced.

New Elphinstone High School.

Estimated amount	...	Rs. 5,69,076
Expenditure during the year	...	„ 85,191
Total expenditure	...	„ 1,91,324

School of Arts.

123. This building in Gothic style, designed by Mr. G. T. Molecey, F.R.I., B.A., is being constructed on a site nearly opposite the Arthur Crawford Market. Its total length is 273 feet, breadth 100 feet 9 inches, including carriage porch in front, and height from ground level to general level of ridge, 58 feet. It has two floors. On the first floor are the general school-room, lecture-room, museum, library, and the decorative department with its private studio; and on the ground floor are the antique room, pottery, and wood carving departments, and the sculpture department, with its private studio, besides the entrance hall; retiring rooms are also provided on both floors. Externally the building is to be Sewree blue stone facing, with dressings in Coorla and Porebunder stones. The foundations, and a portion of the plinth of the building, have been completed.

Estimated amount	...	Rs. 2,03,579
Expenditure during the year	...	„ 13,715

School-house, Sirsi.

124. **Kanara.**—The foundations and plinth have been completed.

Estimated amount	...	Rs. 6,190
Expenditure during the year	...	„ 3,393

School-houses at Hukeri, Sherbál, Duddi, and Kalcundri. (Local Funds.)

125. **Belgaum.**—The school-house at Kalcundri was completed in 1873-74. Those at Hukeri and Duddi have been completed in 1874-75. The school-house at Sherbál has been in progress, and will be completed shortly.

Estimated amount	...	Rs. 12,449
Expenditure during the year	...	„ 5,722
Total expenditure	...	„ 11,750

School-house at Cháphal. (Local.)

126. **Sata'ra.**—This is on the standard plan for 75 boys; the roof being of corrugated iron. The superstructure of the building was completed. A considerable delay occurred in commencing the work, owing to arrangements having to be made about the site.

Estimated amount	...	Rs. 4,727
Expenditure during the year	...	„ 2,663

School-house at Bhillowdi. (Local.)

127. This school-house is entirely in accordance with the standard design for 100 boys. The small expenditure is due entirely to difficulties and delay in acquiring a site. The plinth was raised to full height, and the superstructure commenced.

Estimated amount	...	Rs. 5,250
Expenditure during the year	...	„ 1,156

School-house at Newra. (Local.)

128. This is a school-house on the standard plan for 50 boys. The expenditure was confined entirely to the collection of materials.

Estimated amount	...	Rs. 2,714
Expenditure during the year	...	„ 551

School-house at Bhoseh. (Local.)

129. This school-house is for 75 boys, on the standard plan. The expenditure incurred was chiefly on account of collection of materials. The foundations have been filled in.

Estimated amount	...	Rs. 3,889
Expenditure during the year	...	„ 1,156

School-house at Paungaon.

130. **Shola'pur.**

Estimated amount	...	Rs. 2,760
Expenditure during the year	...	„ 2,249

Erecting a school-house at Nárráyangaon. (Local.)

131. **Poona District.**—A school-house on the standard plan, to accommodate 150 boys, has been constructed. The building is of stone, with double-tiled roof, and was constructed by contract.

Estimated amount	...	Rs. 5,337
Expenditure during the year	...	„ 1,454
Total expenditure	...	„ 5,017

Erecting a school-house at Junnar. (Local Funds.)

132. A school-house on the standard plan, to accommodate 200 boys, has been constructed. The building is of stone, with double-tiled roof, and was constructed by contract.

Estimated amount	Rs.	7,676
Expenditure during the year	„	3,264
Total expenditure	„	7,665

School-house for 75 boys at Chowle. (Local Funds.)

133. **Northern Konkan.**—At Chowle the school, on the standard plan for 75 boys, has been completed.

Estimated cost, exclusive of establishment charges. ...	Rs.	3,786
Expenditure during the year	„	1,680
Total expenditure	„	3,925

School-house for 75 boys at Nizámpur. (Local Funds.)

134. At Nizámpur, a town annexed to Bhiwandy, a similar school (commenced last year) has been completed.

Estimated cost, exclusive of establishment charges ...	Rs.	3,786
Expenditure during the year	„	2,298
Total expenditure	„	3,764

135. **Surat and Broach.**—This school-house consists of two large rooms, each 24 feet long, and two smaller class rooms at each end, 22 feet long; all the rooms are 16 feet in breadth, and 14½ feet high up to the top of the tie beam. A verandah, 8 feet in clear, runs in front of the centre rooms; all the walls are 18 inches thick. Galleries are constructed of earth, with brick edges, each 2½ feet broad by 12 inches high. Completed.

School-house for 200 boys at Amod. (Local Funds.)

Estimated amount	Rs.	13,064
Expenditure during the year	„	4,410
Total expenditure	„	12,408

136. This building consists of 3 rooms, measuring each 32 feet by 16 feet, one in the centre, with two others disposed transversely at either end. A verandah, 8 feet wide, is provided in front of the centre room. In each room there are three tiers of seats, 2½ feet wide, and 1 foot high, running the whole length of the room. The seats are faced with stone masonry, and plastered on the upper side. Completed.

School-house for 150 boys at Bárdoli. (Local Funds.)

Estimated amount	Rs.	7,191
Expenditure during the year	„	5,005
Total expenditure	„	7,170

137. This building is constructed 45 feet in length, and 16 feet in breadth (inside measurements), 11 feet high up to bottom of the tie beams, having a verandah 6 feet wide. The whole of the masonry is of burnt brick and lime. Roof of the main building is double-tiled, &c.; doors and windows of teakwood plank. Completed.

School-house for 75 boys at Kosumba. (Local Funds.)

Estimated amount	Rs.	2,943
Expenditure during the year	„	425
Total expenditure	„	2,571

138. **Kaira.**—This building, lately sanctioned, consists of a lecture hall, 40 feet by 20 feet, one class room, 36 feet by 16 feet, four others each 18 feet by 18 feet, and a master's room, 18 feet by 18 feet. Most of the materials are being prepared, the plinth is in progress, and the school will, it is anticipated be completed in 1875-76.

High School at Nariád

Estimated amount	Rs.	14,352
Expenditure during the year	„	4,170

School-house at Thásra for 150 boys.
Do. at Godhra for 100 do.
Do. at Chickodra for 75 boys.
Do. at Sársa for 150 boys.
(Local Funds.)

139. The first school, for 150 boys, has been finished, and the other three, for 325 boys, will be ready for occupation in 1875-76.

Names of Schools.	Estimated amount.	Expenditure in 1874-75.	Total expenditure.
Thásra, for 150 boys	4,571	2,230	3,862
Godhra, for 100 boys	2,987	2,640	2,640
Chikodra, for 75 boys	2,122	1,499	1,499
Sársa, for 150 boys	4,625	1,193	1,193

Female Training College, Ahmedabad.

140. **Ahmedabad.**—The grants for this work are provided for as under:—

From Provincial Funds	Rs. 10,000
„ Contributions by Row Bahdoor Bechurdas Ambaidas, and the Municipality	„ 10,514
Total ...	„ 20,514

The College affords accommodation for the following:—
Class rooms.
Bungalow for Superintendent, with out-houses.
Dormitories for students with, out-houses.
Compound.

The class rooms are in an upper-storied building, 3 in each floor; their size is 16 feet by 14 feet. The verandah of ground floor is 9 feet 6 inches, and of upper floor 5 feet wide, strutted from below. The Superintendent's bungalow consists of 2 rooms, 16 feet by 16 feet, with 10 feet verandah on three sides. Bath-room and godown are enclosed in corner of rear verandah. The out-houses are in two blocks, one containing cook-room, 12 feet by 10 feet, with two servants' rooms, 10 feet by 8 feet; the other, store-room, 15 feet by 10 feet, and stable, 10 feet by 10 feet. The dormitories are 10 in number, each room being 12 feet by 10 feet; a verandah, 6 feet wide, is provided in front and rear. 5 cook-rooms are provided, each 10 feet by 10 feet, and a latrine; a compound wall is provided round the premises. The woodwork of roof of the class rooms is partly put up. The other buildings are completed, with the exception of minor details. Incomplete.

Estimated amount	Rs. 25,178
Expenditure during the year	„ 20,514

School-house for 150 boys at Barwála. (Local funds.)

141. The work has been given in contract, but owing to the site not having been handed over to this department in time, materials only are collected.

Estimated amount	Rs. 4,928
Expenditure during the year	„ 2,054

European and Indo-European School at Kurrachee.

142. **Kara'chi.**—To accommodate 44 boarders (22 girls and 22 boys), and 36 day-scholars. The girls and boys will occupy separate wings. The building is upper-storied. On the ground floor are two class rooms for boys, 24½ feet by 19½ feet, and 19½ feet by 17 feet, and exactly similar class rooms for girls, separated by a common dining hall, 22½ feet by 19½ feet. There are also two separate covered play-rooms, 24½ feet by 19½ feet, for boys and girls. On the upper floor are the master's and mistress's rooms, 20 feet by 20 feet, and two 25 feet by 20 feet, separating the dormitories for boys and girls; the boys having two rooms, 50 feet by 20 feet, and 20 feet by 17½ feet, and the girls the same. A verandah, 10 feet wide, runs in front and rear of the building, and there is a porch in front. The superstructure of the lower story is completed, and the floor girders and joists are laid. Contributions amounting to Rs. 26,205 have been received. The estimated cost is Rs. 47,901, including out-houses to cost Rs. 5,807; the expenditure, Rs. 10,448.

Guzerathi Mission School.

143. Is a commodious building on the standard plan, with rear verandah enclosed to form extra class rooms, and will accommodate 250 pupils. Nearly finished. Half cost met by contribution.

Estimated amount	Rs. 7,053
Expenditure during the year	„ 3,551

VII.—JUDICIAL.

144. **Bombay.**—The building has been fully described in para. 124 of the Report for the year 1871-72. The first floor walls, together with corridor, columns, arches, &c., have been raised to their full height; and the second floor, consisting of iron girders, joists, planks, &c., ave been laid during the current year. The bases, columns, and capitals of the second floor are cut almost ready for use, and the roof is well in hand.

New High and Small Causes Courts.

Estimated amount ...	Rs.	14,07,261
Expenditure during the year ...	„	2,51,395
Total expenditure...	„	7,81,053

Certain additions and alterations to the Superintendent's Quarters at the House of Correction.

145. The work is in progress. The buttresses, to the height of about 14 feet, are built up; brick relieving arches over doors and windows are completed.

Estimated amount ...	Rs.	12,567
Expenditure during the year	„	896

Constructing a workshed in the House of Correction.

146. The materials for the work are ready, with the exception of some posts and tie beams, which are now in the course of preparation.

Estimated amount ...	Rs.	3,242
Expenditure during the year	„	1,687

Strengthening the Girgaum Police Court.

147. The concrete foundations for an abutment and a pier are filled in, and the cut-stone work of the same is ready for fixing. The iron grills for entrance door are in course of preparation.

Estimated amount ...	Rs.	2,801
Expenditure during the year	„	1,069

148. **Aden.**—At the close of the year 1873-74, this work had been completed to a height of about 12 feet above ground level. It has since been entirely completed, and is now ready for occupation, with the exception only of certain fittings yet to be supplied. The woodwork has been supplied entirely by the Architectural Executive Engineer and Surveyor. The materials used in its construction were of the best quality, and the building (now completed) presents, the Executive Engineer reports, a very handsome appearance. The masonry work, which is random rubble, with chisel-dressed quoins, was carried out by contract.

Constructing Treasury and Police Court Buildings in Camp Aden.

Estimated amount ...	Rs.	58,113
Expenditure during the year	„	39,745
Total expenditure ...	„	60,579

Subordinate Judge's Court, Coompta.

149. **Kanara.**—This work has been completed, and taken over by the Judicial Department.

Estimated amount ...	Rs.	20,613
Expenditure during the year	„	6,072
Total expenditure	„	20,570

Jail compound, Karwar.

150. The land has been taken up and paid for. The road has been marked out.

Estimated amount ...	Rs.	6,657
Expenditure during the year	„	3,360

151. **Dharwar.**—Completed. The walls are of the Schistore stone, procurable in the neighbourhood, which is an excellent building material. The roof of this building is constructed like that of the record room at Dharwar noted above.

Subordinate Judge's Court at Gadák.

Estimated amount ...	Rs.	17,391
Expenditure during the year	„	5,476
Total expenditure ...	„	15,327

Pendalls for Treasury Guards at Mámlatdárs' Kutcherries.

152. **Belgaum.**—The Police pendalls at Saundatti, Khánápur, and Sampgaon, have been completed. The pendalls at Chikori were not commenced, as the site for themwas not available.

Estimated amount	...	...	...	... Rs. 5,835
Expenditure during the year	...	...	...	... „ 5,760

Subordinate Judge's Court at Chiplun.

153. **Ratna'giri.**—This building provides the following accommodation: one Court room, one Munsif's office, record room, Nazir's office, store-room, Pleader's room, Jail room, and Munsif's private office. The walls of the main building have been nearly completed, and the roofing half finished.

Estimated amount	...	...	...	... Rs. 19,318
Expenditure during the year	...	...	...	... „ 9,491
Total expenditure	...	...	...	... „ 14,858

Police Lines and Police Office.

154. The number of blocks provided in the original project has been reduced to 10, and they provide accommodation for 110 constables, and 20 constables of the 2nd to 4th class. During the year 6 blocks of thirteen rooms each, one chief constable's quarters, 2 first class constables' quarters, and school room, have been completed and handed over. The walls and roofing of the two remaining blocks have been nearly completed. The superstructure of the Police Superintendent's office has been raised 5 feet 6 inches.

Estimated amount	...	...	...	... Rs. 43,320
Expenditure during the year	...	...	...	... „ 19,484
Total expenditure	...	...	...	... „ 36,482

Subordinate Judge's Court at Karád.

155. **Sata'ra.**—The main building, which contains two principal rooms, 30 feet by 18 feet, with verandah rooms at the end, is intended to give accommodation to both the Munsif's and the Small Cause Courts, and their offices. Two ranges of sheds, close to the main building, give accommodation for prisoners, for peons, for the records, witnesses, &c. The main building was completed, and the sheds required but the finishing off of the roofing.

Estimated amount	...	...	...	... Rs. 16,866
Expenditure during the year	...	...	...	... „ 12,348
Total expenditure	...	...	...	... „ 13,719

Subordinate Judge's Court at Pandharpur.

156. **Shola'pur.**—Short expenditure, due to unexpected failure of contractor to complete proportion of work before 31st March 1875. Concrete foundations, and preparation of materials, in progress. This building is on the old standard plan of 1871, and is being erected on deep black soil, though in other respects on a favourable site. The masonry work has been given in contract.

Estimated amount	...	...	...	... Rs. 17,004
Expenditure during the year	...	...	...	... „ 4,440

Central Jail at Yerowda.

157. **Poona District.**—Satisfactory progress has been made during the year in the jail buildings, which, so far as those within the enclosure are concerned, are now approaching completion. The work within the jail has been confined to the extra half circle, in which six barracks (4 completed) built on sites radiating, have been constructed to accommodate 336 prisoners. In the European prisoners' yard a cook-room has been built. Outside the jail, a convenient residence, on approved plan, has been provided for the Superintendent, instead of the temporary quarters hitherto used, which have been entirely removed. An approach road (about 1¼ mile), with metalled surface, from the Ahmednagar road, near FitzGerald Bridge to the jail, has been constructed.

Estimated amount	...	...	...	Rs. 7,39,521
Expenditure during the year	...	...	...	„ 79,711
Total expenditure	...	...	...	„ 7,26,447

Conversion of the building near Rastia's wada at Poona into a Civil Jail.

158. **Poona and Kirkee.**—This is an old private building, rented by Government. It has been divided into two parts by a partition wall, and made to form a male and female prison respectively. The roof of the building has been thoroughly repaired, and the walls plastered and painted, as was found necessary. Two water

tanks for males, and one for females, have been built, and three latrines for the former, and two for the latter, provided.

Estimated amount	...	...	...	Rs.	2,560
Expenditure during the year		...	...	„	2,555

Constructing Police Lines.

159. **Ahmednagar.**—These consist of 10 barracks, containing accommodation for 125 men of all ranks. Quarters for four Native officers, and two latrines, have also been completed. The construction is mud walls, with single-tiled roof, except for the latrines, which are of permanent construction. Five blocks, for 13 men each, were nearly completed last year (1873-74).

Estimated amount	...	...	...	Rs.	31,023
Expenditure during the year		...	...	„	16,836
Total expenditure	...	...	...	„	26,838

Tanna Jail.

160.. **Northern Konkan.**—The jail is situated within the old fort taken from the Mahrattas about 100 years ago. The fort was originally lined out upon Vauban's system, and consists of an irregular pentagon, the east side lying along the Tanna Creek, and the main entrance being on the west front. The walls are substantial and well built, varying from 3 feet in thickness. A ditch originally surrounded the fort on the four unprotected sides, with a covered way and glacis in front. The ditch, glacis, and covered way have disappeared from all but the south and west fronts. The accommodation provided in the jail is as follows:—8 main barracks on the radiating system, with latrines and worksheds between each, occupy the central area of the fort. Six of these barracks accommodate 64 men each, or 384 men in all. The two remaining barracks provide accommodation for 26 men each, or 52 in all. These are arranged on the separate cell system, and are termed "quarantine wards." The six main barracks are now completed; 3 latrines and 3 worksheds are also completed. To complete the main circle, there remains to execute (from 1st April 1875)—

2 Quarantine wards.
3 Latrines.
3 Worksheds.
The railing or wall round the main circle.

The south-west bastion is provided with a large and commodious hospital raised upon the old main ramparts. This, with cook-room and latrines, have been completed for some time. Within this bastion there remains to be constructed—

1 Contagious diseases ward to accommodate 2.
1 Lunatic cell.
1 Hot, store and dead room.
1 Untried prisoners' ward.

Gorge wall of the foregoing, the untried prisoners' ward, is nearly completed, and all wood and iron work ready to fix; it will be finished before the rains. The bastion on the north-west has had the ramparts cleared away entirely, and 3 barracks have been constructed on the separate cell system. A gorge wall closes all access to this ward, except by a small barred door. The bastion on the north is set apart for female prisoners; here also the ramparts have been removed, and 2 barracks, each to contain 30 women, have been built; and also separate cell accommodation for 13. A room in the separate cell barrack has been provided for sick women, by desire of the Inspector General of Prisons. In the centre of this bastion a main cook-room has been provided, and a wall to separate the bastion from the general prison has been thrown across the gorge, the only access being by a small barred door. The whole of the above accommodation is completed. The north-east bastion is small. The ramparts have been left here. A wall has been run across the gorge, with a small barred door leading to steps to the bastion inside. There is to be accommodation for eight juveniles upon this bastion, on the separate system. The south-east and last bastion is also limited in area, and here also the ramparts have been left, and a gorge wall, with steps inside, provided. It is intended to place upon the bastion quarters for two European prisoners. The ramparts have been removed from the curtains all round, and sentry walks, with railing, constructed on the main walls surrounding the jail; the new gorge walls are also supplied with sentry walk at top. The entrance to the jail is on the west front, and a large commodious reception or searching room has been provided inside. The guard is situated outside the jail, and has access only to its duties by steps outside leading to the sentry walk, so that the military do not enter the jail at all. The new guard-room has still to be erected, and, it is trusted, will be ready by the rains, or nearly so. Accommodation for six convicts on the solitary sys-

tem are to be constructed in front of the gorge wall of the juvenile bastion, and accommodation for six condemned prisoners on the separate system, in front of the gorge wall of the European bastion. The main guard-room outside and on west front has to be constructed; this is situated in a round tower which formed the old main gate; and above the guard-room commodious quarters for the Superintendent. The water-supply is at present drawn from wells in the interior; it is intended to close up some of these, leaving only the best, to cover them in, and provide them with pumps. The main supply, however, being provided in the ditch on south and west fronts, which will be cleared out and cleaned, a filtering tank provided under the angle of south-west bastion, and the water pumped up into a cistern in a round tower existing on the angle of the bastion, from which it will be conveyed by gravitation to stand pipes, placed where required, all over the jail. The interior of the jail slopes from the centre towards the walls, and open V drains, capable of being flushed, will carry off all drainage from the lavatories and cook-room to the creek outside. It is trusted the water-supply and drainage scheme will be completed, or nearly so, by the rains of 1875. The operations of 1874-75 have been devoted to the following works noted above:—

1. Women's quarters.
2. Cook-room.
3. Main barrack No. 6.
4. New main gate.
5. Untried prisoners' ward.
6. Three worksheds.
7. Three latrines and lavatories.
8. Main guard-room.

From the 1st April the following works remain to be carried out:—

2 Quarantine wards.
3 Worksheds.
3 Latrines and lavatories.
1 Untried prisoners' ward.
1 Contagious diseases ward.
1 Lunatic cell.
1 Juvenile barrack.
1 European ward.
1 Solitary cell barrack.
1 Condemned barrack.
Guard-room.
Superintendent's quarters, with servants' quarters.
Main railing or wall round radiating barracks.
Drainage and water-supply.
Dead, hot, and store rooms.
Gorge wall, south-west bastion.

Estimated amount	...	Rs. 3,95,894
Expenditure during the year	...	„ 49,924
Total expenditure	...	„ 2,55,875

161. **Na'sik.**—This building, as originally sanctioned, and partially constructed, was 20 feet by 10 feet interior dimensions, but was enlarged in order to afford combined accommodation for the Cantonment and Railway Magistrate of the Collectorate, and it now consists of the following accommodation for the use of the Karkuns, Magistrate, and Peons, respectively:—There are three rooms; 20 feet by 10 feet, 18 feet by 15 feet, and 10 feet by 10 feet, with a verandah 7 feet wide in front, as well as at the north end and rear of the Magistrate's office. Completed.

Office for the Cantonment Magistrate, Railway Magistrate, and Magistrate of the Collectorate at Deoláli.

Estimated amount	...	Rs. 3,721
Expenditure during the year	...	„ 3,681

162. **Khandesh.**—These lines are being built by the Superintendent of Police; they were commenced rather late, and could not be finished before the 31st of March; they will be finished before the rains; they are each for 11 men.

Police Lines at Jalgaon and Amalner.

Estimated amount	...	Rs. 3,896
Expenditure during the year	...	„ 3,275

Police Lines for 22 men at A'mod.

163. **Surat and Broach.**—These lines consist of two blocks, one on each side of the Mámlatdár's Kutcherry, both similar in every respect; each of the blocks consists of 9 rooms, 10 feet by 12 feet, one 17 feet by 12 feet, and one for Non-Commissioned Officer, 12 feet by 12 feet. A verandah in front, 6 feet wide, runs throughout the whole length; walls are 10 feet high inside. Completed.

Estimated amount	Rs.	15,756
Expenditure during the year	„	5,594
Total expenditure	„	14,970

Accommodation for Police Peons at Borsad.

164. **Kaira.**—These lines, for 13 foot and 3 mounted Police, have been completed, and occupied.

Estimated amount	Rs.	5,716
Expenditure during the year	„	921
Total expenditure	„	5,664

Police Lines for 14 men at Parántij.

165. **Ahmedabad.**—The Police line consists of 14 rooms, each 12 feet by 10 feet inside dimensions, with a verandah 5 feet 3 inches wide in front. Completed.

Estimated amount	Rs.	5,111
Expenditure during the year	„	3,958

III.—AGRICULTURAL.

167. General Remarks.—Reviewing the operations of the Irrigation Department for the year under report, the progress made with sanctioned works has been satisfactory, considering the grant available for expenditure. With the exception of the Káshmor and Begári Bund in Sind, no new works of importance have been undertaken during the year. Under orders from the Government of India, the large projects which were under investigation for irrigating the dry tracts of country comprising the Indápur Taluka, and eastern portions of the Poona Collectorate, the Malsurus taluka of the Satara Collectorate, and others, have been placed in abeyance for the present, or until further experience has been gained of the results of irrigation in the Deccan, and the remunerative character of the new works has been practically established. However much the delay in providing for these tracts is to be regretted,—for it may be truly affirmed that there are no tracts of country in India so much in want of the means of irrigation,—the precaution is, no doubt, a necessary one as applied to expenditure to be met from Loan Funds. This Government have, however, represented to the Government of India the total insufficiency of the grant for ordinary works, the sum available after deducting for the maintenance of existing works being only about one and a half lakhs, which is a very small sum for the improvement of so large an area of country as is comprised by the eight collectorates of Khandesh, Násik, Ahmednagar, Sholapur, Satara, Kaládgi, Belgaum, and Dharwar, and the Government of India have promised to consider the propriety of providing funds for some of the small projects for which plans and estimates are ready, on the completion of the Káshmor and Begári Bund, which takes up a large portion of the year's grant.

It is thus hoped that in later years the progress of irrigation generally will be greater than it has been during the past year; that this report will comprise a list of those new works undertaken for the general benefit of the country, with a prospect of moderate return on the capital outlay, after the lapse of a few years, to enable the people to become accustomed to irrigation, and change their style of cultivation from dry to wet crops.

In Guzerat, progress has been delayed for want of sanction to the Tapti Canal, which awaits the settlement of arrangements with the Gaekwar for the land required for the works, and the collection of further statistics regarding the records of famine or drought.

In Sind, the inundation of 1874 was abnormally high, and much damage was caused to the canals and cultivation. The maintenance charges will consequently be heavy next year, as well as this, and works of control, escapes, &c., will have to be designed on several of the most important feeders.

I.—IRRIGATION WORKS.

168. **Dharwar.**—A sum of Rs. 9,992 was expended on the repair and improvement of 14 of the old tanks in this district; of this, Rs. 6,227 was from contribution, principally on account of the Sidápur Tank, in Sawanur, referred to in the last report. Plans and estimates for improvements to a number of others were prepared, and will be sanctioned for execution from this year's grant, as far as funds will admit. The Chief Engineer for Irrigation visited the district just before the close of the year, with a view of inquiring into the question of the state of repair of the old works, which, it had been stated, were fast deteriorating. His inquiries led to the conclusion that the tanks were generally in a fair state of repair; that there was no general deterioration; but the real source of complaint was the want of water, owing to the increase of irrigation. The tanks being situated on the same drainage channels, any increase of irrigation on the upper tanks necessarily deprived those situated lower down of water.

169. Madak Tank. An expenditure of Rs. 450 was incurred on earth-work and distributaries in connection with this work. The revenue from irrigation was again larger than in previous year.

Estimate	Rs.	1,72,836
Expenditure	„	411
Total expenditure	„	1,18,153

The maintenance cost Rs. 1,369, including a small sum for planting and watering trees. Owing to the small size of the canals, and their small bed-fall, they are expensive to maintain.

170. Dhoni Tank. *Surveys.*—Plans and estimates for the Dhoni Tank were completed and submitted for sanction. Government have approved of the project generally, but returned the plans and estimates for further report regarding the probable revenue to be realized.

171. **Belgaum.**—The plans and estimates for this work are ready for submission; but this, with other schemes to be undertaken from Loan Funds, has been placed in abeyance for the present.

Gokák Canal.

172. **Kala'dgi.**—Three small tanks in this collectorate, constructed many years ago under the then Collector of the district, have been examined and reported on. In one case, it is proposed to spend a small sum on improvements, and in another, to abandon the work altogether, the dam having been breached by an extraordinary storm.

173. **Satara.**—An expenditure of Rs. 394 was incurred on modules and distributing channels, which, as formerly explained, are being carried out as required, the project being otherwise complete The area of irrigation was larger than in the previous year; the increase being entirely in perennial crops, in which a falling off was noted last year. There was a falling off in rubi and khurreef; ascribed to seasonable rainfall. The expenditure on maintenance was Rs. 5,790.

Krishna Canal.

Amount of estimate	Rs. 6,10,460
Expenditure to 31st March	„ 5,95,818

174. The canal works in connection with this tank were in progress, and advanced sufficiently to admit of the canal being opened in October. The water is being used for irrigation, and the tank is full. The drainage area of the tank is 50 square miles, and in September a heavy flood, estimated at 25,568 cubic feet per second, equivalent to a run off of $\frac{4}{5}$ths of an inch per hour, occurred and lasted for some time. It did some slight damage to the canal where it crosses the waste-weir channel, the works being incomplete.

Mayni Tank.

Estimate	Rs. 2,37,617
Expenditure of year	„ 14,214
Total expenditure	„ 2,16,941

175. The tail portions of these canals remain incomplete, pending sanction to the project for supplementing the hot-weather supply in the river. The maintenance of the portions already constructed cost Rs. 1,063. There was a falling off in the area of rubi irrigation, owing to seasonable rainfall, and a slight increase in the area of perennial crops.

Yerla Canals.

176. The Chikli, Rewari and Gondowli canals, all of which are completed, and in operation, were maintained at a cost of Rs. 1,600. Owing to seasonable rainfall there was a falling off in the area of rubi irrigation on all these works.

Chikli, Rewari and Gondowli Canals.

177. *Surveys.*—A small expenditure was incurred in sinking further trial-pits in connection with the proposed Nehr Tank on the Yerla River. The plans and estimates are entirely complete and ready for submission, but await further information from the revenue authorities.

Nehr Tank.

178. Surveys were also undertaken for two small works on requisition from the Collector, and are still under consideration.

179. The Mhaswad Tank scheme has been placed in abeyance for the present. The plans and estimates are ready, and could be submitted on very short notice, if desired.

Mhaswad Tank.

180. **Sholapur.**—The tank works are complete, and the canals derived from it have been opened for a considerable distance for the last two years. Work during the year under report was confined to giving them permanent heads across the waste-weir channels of the tank, and to a few additional cross drainage works. The repairs to the dam and canals cost Rs. 8,576, of which Rs. 3,295 were for special repairs. The canals have been planted with trees, which have been maintained by the chokeydars employed on the works. A survey of the land under the command of the perennial canal has been commenced, and an area of 1,341 acres has been subdivided to save the trouble and expense of the measurement of the irrigated areas.

Ekruk Tank.

Estimate	Rs. 9,45,613
Expenditure	„ 3,676
Total expenditure	„ 9,25,169

181. **Poona.**—Nothing further has been done in connection with the reservoir at Kharakwásla; the work of the year being entirely confined to the extension of the Right Bank Canal, and the construction of that on the Left Bank, as well as the arrangements for the distribution of the water in the station of Poona. The progress of the canal is delayed somewhat by the difficulty found in obtaining possession of the land required for the works, the people in the neighbourhood of Poona being difficult to deal with. Water has been supplied to the city and station of Poona, and a scale of rates for payment in the case of the latter has been fixed. During the year, Rs. 5,372 was collected on this account. The water for irrigation is being gradually taken for the gardens around Poona. The canal plantations have been maintained and extended.

Muta Reservoir and Canal.

Estimate ...	Rs. 45,04,009
Expenditure of year	„ 2,68,724
Total expenditure	„ 34,99,961

Kasurdi Tank.

182. The Kasurdi Tank, situated in this collectorate, was maintained in good order.

Nira Canal.

183. *Surveys.*—Like the Gokák Canal and Mhaswad Tank, the further consideration of this scheme has, for the present, been placed in abeyance.

184. **Ahmednagar.**—This work is almost entirely complete, and is in operation. The people are very slow to avail themselves of the water, but there are a number of reasons which explain this. The principal are the sparseness of the population, and the indebtedness of the cultivators generally, which is a serious impediment to irrigation. The work was maintained at a cost of Rs. 3,970, of which Rs. 229 were for tree plantations, and Rs. 749 for special repairs.

Lakh Canal.

Estimate...	Rs. 2,56,705
Expenditure	„ 50
Total expenditure	„ 2,45,426

185. This work remains in the state it was reported to be in last year, the additional storage not being required at present. It has been properly maintained, and the irrigation on it is progressing satisfactorily.

Bhátodi Tank.

Estimated amount	Rs. 2,50,128
Expenditure	„ 189
Total expenditure	„ 2,45,283

186. The head works and a portion of this canal were reported complete in the last report. The remaining portion of the canal is in progress. The tree plantations have been maintained.

Wojhar Canal.

Estimate	Rs. 1,49,067
Expenditure	„ 6,833
Total expenditure	„ 1,21,115

187. **Na'sik.**—This work is very nearly complete, except the last two miles of the canal. Water was taken for an area of 311 acres of rubi. The works and tree plantations have been maintained in proper order, the expenditure on former having been Rs. 689, and on latter Rs. 206.

Palkher Canal.

Estimate ...	Rs. 1,39,333
Expenditure	„ 5,851
Total expenditure	„ 1,27,466

Godavári Project.

188. *Surveys.*—The Godavári Project investigation has been suspended like the other proposed new Loan works.

189. **Khandesh.**—An outlay of Rs. 16,476 from Imperial Funds, and Rs. 6,451 from the Patfalla contributed by the villagers, was incurred on the maintenance of the old works in this division, comprising the Pánjhra, Girna, Mosam, and other miscellaneous canals. The Jamda Left Bank Canal was maintained at a cost of Rs. 2,874, including the maintenance of existing plantations. An outlay of Rs. 710 was incurred on new plantations. The canal was kept open (with the exception of a few days in March, when it was closed for

clearance) for the whole year. The season was, however, a favourable one, and the water was made use of for only a small area. The same causes operate in retarding the irrigation here as on the Lakh canal. The area of waste land in the neighbourhood is large, and the people have but little inducement to cultivate carefully, or irrigate, except in years of failure of rain, which are not frequent in this particular district.

Mukti Reservoir.

190. The tank was made use of to supplement the river's supply during November and December, and again during May, at the request of the villagers. The supply passed off was sufficient for the irrigation of about 500 acres. The completion of the waste-weir arrangements, which are necessary before the full supply can be furnished, were undertaken in January, and will be finished in next season.

Estimate...	Rs. 2,53,086
Expenditure	„ 8,159
Total expenditure	„ 2,26,843

Hartala Tank.

191. This work has been almost entirely completed. The rainfall during the year was only 10 inches, and the catchment being extremely small, the supply of water was deficient. The area irrigated was 223 acres.

Mhaswa Tank.

192. Work on this project was resumed in January, on receipt of the sanction of the Government of India to an allotment of funds. The puddle trench and portions of the dam were undertaken, and the channel or drain for increasing the drainage area completed.

Estimate	Rs. 99,836
Expenditure	„ 9,810
Total expenditure	„ 14,437

Improvement to the Dhadna Channel on the Pánjhra River.

193. An expenditure of Rs. 182 was incurred in completing the work of improvement to the Dhadna Channel on the Pánjhra River.

Estimate	Rs. 11,567
Expenditure	„ 182
Total expenditure	„ 11,551

Tittana Tank.

194. The Tittana Tank, a Local Fund work in the Nizámpur Taluká, was resumed under the Executive Engineer for Irrigation, and an outlay of Rs. 494 incurred.

Girna Tank.

195. *Surveys.*—The survey and investigation connected with this project were continued under instructions from the Chief Engineer who personally inspected the site. Plans and estimates will shortly be ready.

Tanks at Talwára and Chowpála.

196. Surveys for restoring two old tanks at Talwára and Chowpála were completed, and plans and estimates submitted for sanction.

The total outlay on surveys was Rs. 418.

Tapti Canal.

197. **Surat.**—Pending the settlement of arrangements with the Baroda Durbar for the land required for the canal, and the collection of further statistics of the records of famine in the district called for by the Government of India, nothing further has been done in connection with this scheme. The establishment has been employed in surveys for works to protect land in the Bulsar Taluka from the encroachment of the sea, which has caused serious loss of revenue in some instances, and threatens to cause further loss in others.

Plans and estimates for two sets of works with this object were prepared and submitted; one situated near Amalsar, estimated to cost Rs. 16,441, and the other near the village of Wagrejh, estimated to cost Rs. 8,206. The former have not yet been sanctioned pending the settlement of the question of the share of cost to be borne by the Sachin State, whose lands also are benefited; the latter were sanctioned just before the close of the year, and an outlay of Rs. 1,642 incurred on them.

A small project for reclamation at Khund was completed at a cost of Rs. 1,000.

Plans and estimates for extensive reclamation works at the mouth of the river Nerbudda, a river in the Broach Collectorate, were prepared and submitted to Government for orders during the year. A survey was made for drainage works in the northern portion of the Broach Collectorate to protect land from flooding, which causes serious injury to the crops, and loss to both Government and the ryots.

198. **Ahmedabad.**—This work was reported complete last year. During a heavy flood which occurred in August, the weir, forming the head-works, was damaged, which necessitated the closure of the canal. The damage has since been repaired, and the canal re-opened. The distribution works in connection with the canal are in progress.

Háthmati Canal.

Estimate	... Rs.	3,84,705
Expenditure	... „	27,594
Total expenditure	... „	3,05,740

199. Plans and estimates for the clearance of the river, and works for the better regulation of the supply, were prepared during the year, and have since been sanctioned. The estimate amounts to Rs. 20,900. The matter was considered by a committee of the District, Revenue, and Irrigation Officers, and subsequently reported on by the Chief Engineer for Irrigation at the desire of Government. The system of irrigation is very old, and the land is extremely valuable. Late in the rice season, when the water-supply falls short, there are constant disputes regarding it, and one of the objects of the proposed works is to prevent this, and to restore things to the state they were in 1843, when the water rights of the different villages were decided by a committee, and agreed to by the villagers. The estimated cost of the work is Rs. 20,900.

Khári Sluices.

200. *Surveys.*—The plans and estimates for the proposed Khári cut and Bokh reservoirs are undergoing revision under instructions from the Chief Engineer. The Sábarmati Canal scheme has been placed in abeyance for the present, but the plans and estimates are ready for submission.

Water-supply, Khárághora Salt Works, and Town of Ahmedabad.

201. A project was drawn up for a small scheme for supplying the salt-works at Khárághora with water, and investigations for the supply of Ahmedabad were also undertaken.

Guages.

202. Rain and river guage registers were maintained, as heretofore, where necessary.

203. **Shikarpur: Begari Division.**—The excavation has been completed from the 16th to the 33rd mile, and materials have been prepared for the road bridges at 1½, 13 and 18 miles. The canal was opened on the 5th of June with every prospect of a favourable year, but in July the floods from the river between the mouth and Káshmor came down in greater force than has ever been known before: the canal banks were breached in all directions, and a very large area of khurreef cultivation was completely swamped. The damage done by the floods from the river was greatly increased by the rains from the Bolan Pass and Kutchi Hills, which banked back the flood water. The damage done to the khurreef will, in some measure, be compensated by the rubi grown on the flooded land, but the repairs to the canal banks cost a large sum.

Bigári Canal.

Estimated amount	... Rs.	4,31,859
Allotment	... „	75,000
Expenditure	... „	27,503
Total expenditure	... „	3,80,682

204. The expenditure, Rs. 48,867, includes a portion of the cost of the repairs of 1874-75 and 1875-76, and the Abkullanee establishment during inundation.

Maintenance, Begári Canal.

205. On the clearances of canals, repairs to bunds in the division, and Abkallanee, the expenditure was Rs. 57,657. There were several other works sanctioned in this division, and allotments were given; but the expenditure incurred was so small that a notice in this report appears unnecessary. They will be included in next year's report, and treated of there.

206. **Upper Sind Frontier: Desert Canal Division.**—The moving back of the spoil banks of the old Maksudawáh was finished for a length of 28½ miles in June, and another 4 miles was

Desert Canal.

commenced after the inundation, and completed before the close of the year. The head regulator at Kashmor is all but completed. A stop-gate bridge and regulator have been commenced near Drakhan. The over-bridge at Toj is completed, with the exception of the approaches. A survey for the extension of the canal from the 28th to the 52nd mile has been permanently pegged out. The bungalow at Toj is completed, and the out-houses have been commenced. The bungalow at Káshmor was commenced before the inundation, but, owing to the work on the head regulator being so emergent, bricklayers could not be spared to complete it. The upper portion of the work was destroyed by the floods, which burst the bunds round the town, and stood at an unprecedented height: the plinth is now being raised.

Estimated amount	Rs. 9,57,388
Allotment	„ 1,20,000
Expenditure	„ 1,19,201
Total expenditure	„ 1,84,875

207. **Shikarpur : Sukkur Canal Division.**—The work was commenced in November, and fair progress has been made. The upper 1,100 feet of the channel is all but completed.

Sukkur Canal, Scouring Channel.

Estimated amount	Rs. 43,552
Allotment	„ 31,000
Expenditure	„ 27,828

208. Consists of an 8-feet opening, fitted with walls and vertical baulks for regulating the supply to the canal, which takes off at the 29th mile of the Sukkur Canal. Work was delayed owing to the quantity of water in the soil caused by the heavy floods.

Faiz Darya Escape.

Estimated amount	Rs. 3,448
Allotment	„ 2,869
Expenditure	„ 60

209. Some excavation, which remained unfinished below the 4th mile, has been completed, and the canal is now at its full section as originally designed.

Sukkur Canal.

Expenditure	Rs. 4,555

The left spoil bank from the end of new cut to Gaheja-road bridge, a distance of 4 miles, has been strengthened, so as to enable it to stand the Julli floods. The new bank has a width of 10 feet at top, at a level of 4 feet above the highest flood-mark, with front and rear slopes of 1½ to 1. The work has answered successfully.

Strengthening spoil banks.

Estimated amount	Rs. 15,332
Allotment	„ 27,444
Expenditure	„ 10,704

The right spoil bank in the 20th mile has been raised to a height of 4 feet above high-flood level of the canal. At the back of this is a berm 10 feet wide, with a height of 1 foot above full supply level. The side slopes are 1½ to 1. The length of bank, which has been strengthened, is about 700 feet.

Estimated amount	Rs. 3,350
Allotment included in the last head of expenditure ...	„ 1,346

210. A wrought-iron syphon 3 feet in diameter, with masonry inlet and tank for passing a supply to the tail of the Garang under the Sukkur Canal, was completed and opened before last inundation, and answered well.

Garang Syphon.

Estimated amount	Rs. 6,915
Allotment	„ 6,915
Expenditure	„ 6,915

211. Owing to no clearance having been effected for years, this loop of an old inundation canal, cut off by the Sukkur Canal, was much silted. A cut, 10 feet wide and 2 miles long, was made to a level of 2 feet above the canal bed.

Alibahrwáh.

Estimated amount	Rs. 3,050
Allotment	„ 2,090
Expenditure	„ 2,090

Kyra and Bira Kurs.

212. These kurs, which now form branches of the Sukkur Canal, were cleared for a length of 10 miles.

Estimated amount	...	...	...	...Rs. 14,660
Expenditure	...	...	...	... „ 13,377

213. The whole of the above works have been debited to the extraordinary grant. The general abstract shows

Estimated amount	...	...	...	...Rs. 8,74,280
Allotment ...	...	...	...	... „ 76,000
Expenditure	...	...	...	... „ 69,428

214. Against revenue the charges have been as under :—

Silt clearance 1 to 4 miles.

The silt for 400 feet from the head sluice was cleared to the canal bed before the inundation : from that point, by a rise of 1 in 100, the zero level of Bukkur guage (183·84) was reached at 900 feet below the gates : below this the canal was cleared to the 4th mile, joining the proper bed with a fall of 1·81 feet per mile.

Estimated amount	...	...	...	... Rs. 29,365
Allotment	...	...	...	... „ 12,782
Expenditure...	...	...	...	... „ 12,381
Total expenditure	...	...	...	... „ 28,964

Clearance 4th mile to Alladadani.

Estimated amount	...	...	... „ 20,952
Allotment	...	...	... „ 20,952
Expenditure	...	...	... „ 20,918

An establishment was maintained during the inundation at a cost of Rs. 7,443. The total revenue charges amounted to Rs. 51,601.

215. **Ghar Division.**—The work consists of a new mouth to the canal and improvements. The canal originally fed the lower portion of the Chilo from the Nara, but it was closed soon after the opening of the Fordwáh. An increased supply being now required for the tail of the Chilo, owing to an increased consumption of water in its upper portions, the re-opening of the Munderwáh and improvements to its gradient and supply became necessary. The supply to be admitted into the Chilo is regulated by a sluice and escape, and the supply in the canal is kept under control by other sluices and escapes. The excavation and embankments are nearly completed, and the foundations of the head sluice and one road-bridge have been got in.

Munderwáh.

Estimated amount	...	...	...	... Rs. 26,220
Allotment ...	...	...	...	... „ 17,000
Total expenditure	...	...	...	... „ 9,012

216. Three sharp bends in the canal have been cut off, affording a freer flow, and rendering the canal more useful as one of the outlets of the ghat. All earthwork has been completed, and only some masonry heads to kurriahs remain.

Kur Ratta.

Estimated amount	...	...	...	... Rs. 3,172
Allotment	...	...	...	... „ 3,172
Total expenditure	...	...	...	... „ 1,544

217. This work is a restoration of the embankments and sluices on the Western Nara, which have been swept away by the heavy floods of last year, or damaged to such an extent as to be useless. The expenditure during the year was met from savings on the Munderwáh.

Western Nara.

Estimated amount	...	...	...	... Rs. 57,033
Expenditure	...	...	...	... „ 903

218. The improvements to the Gillespie Wáh, which consist principally of embankments across low ground, are well in hand ; and the extension of the Abad bund from Hatri to the Nangashai bund has been almost completed. The two works are connected and form part of one estimate, as the bund is for the protection of the land which will be irrigated from the canal.

Gillespie Wáh and Abad Bund.

Estimated amount	...	...	...	... Rs. 33,000
Allotment ...	...	...	...	... „ 16,000
Expenditure and total expenditure	...	...	...	... „ 17,501

219. The clearances of the canals in the division have been effected at a cost of Rs. 62,485, and the charges for Abkallanee establishment and emergent repairs, which were high owing to the unusual flood, amounted to Rs. 25,937.

220. **Eastern Nara Division.**—Extraordinary. The works carried out during the past year have been—first class chowkey at Duraila, kuriah heads to branches, watering places for cattle, and ghats for travellers. The canal is now finished, and the accounts have been closed in accordance with the orders conveyed in Government Resolution No. 459 of the 20th August last.

Mithrau Canal.

Amount of sanctioned estimate	Rs.	7,15,417
Expenditure during the year	„	9,543
Total expenditure	„	7,17,846

The reconstruction of the buildings at Sindri has been completed.

Estimated amount	Rs.	12,229
Allotment	„	5,418
Expenditure	„	5,380
Total expenditure	„	12,191

Thar Canal.

221. Ordinary. The only work carried out during the year was the dry-brick pitching to slopes and bed at the head of the canal.

Amount of sanctioned estimate	Rs.	2,10,126
Allotment	„	10,000
Expenditure	„	7,681
Total expenditure	„	2,86,982

Masonry Heads to Kurriahs. Right Bank of Nára.

222. One masonry head only has been completed during the year.

Amount of estimate	Rs.	38,240
Allotment	„	8,000
Expenditure	„	1,499
Total expenditure	„	20,087

Excavation of Bed of Nára from Chundawáh to Nubisir.

223. A small amount of work only could be done owing to the flood water.

Estimated amount	Rs.	6,776
Allotment	„	6,776
Expenditure	„	6,318
Total expenditure	„	6,776

Weir across the Adhwana.

224. The preparation of materials was sanctioned in Government Resolution No. 10 W. I.—33 of 25th January last, and an expenditure of Rs. 1,898 has been incurred. The estimated cost is Rs. 17,524.

Clearance, Mithrau Canal.

225. What remained of the clearance for 1874-75 was completed, and a portion of the clearance for 1875-76 has been carried out at a cost of Rs. 5,749.

Maintenance, Mithrau Canal.

226. The maximum supply admitted was 1,713 cubic feet per second less than usual, owing to the heavy flood. The Jullub bund was breached in three places, and the canal banks had to be cut between the head and the 17th mile to allow the flood to pass over the canal. A bund was thrown up along a high ridge at the 17th mile which crosses the canal at right angles, and by this means and by means of the cuts in the bank, the flood was thrown across the canal and into the lowland lying between the canal and the Nára. Only about one-third of the cultivation on the canal escaped. The expenditure on maintenance was Rs. 10,428.

Maintenance, Nára Embankments.

227. A breach was made in the bund north of Khipra to obviate danger to the town; and the floods made a breach in the south bund. The expenditure was Rs. 7,203.

Clearance and Maintenance, Thar Canal.

228. Rs. 3,183 were expended on clearance, and Rs. 5,038 on maintenance. The Thar Canal was completely submerged by the floods, and the whole of the cultivation was destroyed.

229. **Rhori Canal Division.**—The balance of the grant for this work is only now Rs. 23,487, and out of it only a small expenditure is still required on the Shah, Paru, and Rajwáhs. The work connected with the Great Marack is nearly all completed.

Improving Shadádpur Water-supply.

Estimated amount	Rs. 1,62,215
Allotment	„ 66,000
Expenditure	„ 60,430
Total expenditure	„ 1,38,728

230. A new head had to be cut to the Nowlakiwáh, a large bar having formed across the dundhs which supplied the southern mouth. The cost of this was Rs. 11,721, which was considerably less than the estimated cost of clearing the old mouth. The Dadwah bunds have been completed, and it is expected that 6,000 acres of land will be secured from floods, besides an additional supply of water being passed down to the lower portions of the canal. The Alibahr kutcherry and Barhunwah have been cleared to a proper gradient; and the true bed has been properly laid down by bed stones. The supply in these canals will be largely increased, as the original bed stones were found to be 3 feet higher 2 miles from the mouth than they were at the head. Eight regulators to kurriahs, taking off from the following canals, have been completed:—Nusrut 3, Chakur ex Nowlaki 2, Awat 1, Kyrewah ex Rheinwah 1, Sarungwáh 1, and good results from them in economizing water may be expected. The total sum spent on clearances was Rs. 12,672; and on Abkullanee, Rs. 4,451, expended by the Executive Engineer. The sums expended by the Collector were—on clearances Rs. 98,968; on Abkullanee Rs. 753.

Clearances.

231. **Hyderabad: Fulaili Division.**—The banks of the Sanni Guni have been strengthened up to the 12th mile, and the regulating heads to the Sherewáh, Ghar Lohari, and Ghar Kuddan have been completed. During the past inundation the Sanni Guni was open up to the 12½ miles: it acted successfully, as it afforded an additional escape to the unusually high floods in the Guni, and irrigated a large area of land.

Canals at tail of Guni.

Estimated amount	Rs. 53,740
Allotment	„ 6,820
Expenditure	„ 6,798
Total expenditure	„ 30,254

232. The project is for providing masonry heads to branches of the Fulaili and Guni so as to enable the supply to be better distributed among the several branches. It comprises the following works:—

Branch regulating heads.

1*st*.—A triple sluice at the head of the Shere Ali and Sanni Guni canals completed.

Amount of estimate	Rs. 10,385
Allotment	„ 1,358
Expenditure...	„ 1,358
Total expenditure	„ 8,881

2*nd*.—A sluice at the mouth of the Nurwáh; two openings of 10 and 14 feet completed.

Amount of estimate	Rs. 4,103
Allotment	„ 3,603
Expenditure...	„ 3,603
Total expenditure	„ 3,603

3*rd*.—Sluice at the head of the Alibuhr Karo; two 8-feet spans completed, with the exception of copings to parapets.

Estimated amount	Rs. 2,903
Allotment	„ 2,903
Expenditure and total expenditure	„ 2,781

4*th*.—Sluices on the Sydah and Shahwáh Mugrub canals, each consisting of one 8-feet opening, completed.

Estimated amount	Rs. 2,746
Allotment	„ 2,346
Expenditure and total expenditure	„ 2,343

5th.—Sluice at head of Gaja: four spans of 10 feet and one of 15 feet completed to springing line.

Estimated amount	...	Rs. 12,139
Allotment	...	„ 8,139
Expenditure and total expenditure	...	„ 8,139

Improvement to Guni at Tulhar.

233. The work consists of a diversion cut near the village of Tulhar, about 800 feet long and 100 feet wide, with side slopes of 1 to 1. Nearly completed.

Estimated amount	...	Rs. 5,372
Allotment	...	„ 2,000
Expenditure during the year and total expenditure	...	„ 2,000

Canal Chowkey at Korewáh.

234. The expenditure on this building has been confined to the collection of materials as the orders to commence were received so late in the year.

Estimated amount	...	Rs. 4,719
Allotment	...	„ 800
Expenditure and total expenditure	...	„ 800

Canal clearances.

235. Completed by the end of the year. Owing to the unusual height of the inundation the canals sustained considerable damage. For upwards of three weeks the greater number of them were flowing above the level of the country, and within a few inches of the top of the spoil banks, which were breached in more than 160 places in the three talukas. All these breaches were repaired, with the exception of one in the Mirwáh Tulhar, which it was considered to leave open. In consequence of the measures adopted to ensure an equable distribution of the water in the Fulaili, the loss of revenue from flooding will not be great. In the south-eastern portion of the division, however, the Eastern Nára floods caused considerable damage, and the inhabitants of that district had to abandon their villages altogether. The expenditure on Abkullanee establishment in the division was Rs. 10,758, and on temporary establishment of kullasees Rs. 2,113.

Manchhar Lake Drainage.

236. **Kurrachee Collectorate Canals.**—At the close of last official year the dredge had to be taken up to Sehwan for repairs; the repairs were completed on the 7th of July, and the dredge was then taken up to the Manchhar end of the Arul to be employed on the widening of the outlet. The extraordinary floods, however, (reaching on the 20th of August 10 feet higher than the average) prevented any work being done, and the dredge had to return to Sehwan, where it was employed in dredging the shoals at the mouth of the Arul.

Estimated amount	...	Rs. 56,406
Allotment	...	„ 10,000
Expenditure	...	„ 6,695
Total expenditure	...	„ 31,561

Sluices on Ghari and Khalsa Canals.

237. These canals are branches of the Phiyari and tail into very low ground which they flood unnecessarily during the inundation. The Ghari sluice has 4 openings of 8½ feet, and the Khalsa sluice 3 openings of 10-feet span; they are both built of brick, the foundations being set with hydraulic lime. Completed.

Estimated amount	...	Rs. 12,866
Allotment	...	„ 12,900
Expenditure and total expenditure	...	„ 12,450

Improvement to the Wahurwáh.

238. The project consists of enlargement of the Makakai, a branch which leaves the Western Nára above the Baid sluice; a new cut from the Makakai to the Waddowáh; and clearance of the Waddowáh from the termination of the new cut to the Wahurwáh. It also includes a sluice at the head of the Makakai, and at the head of the new cut. The work was delayed owing to the flood water not drying up, and very little expenditure was incurred.

Estimated amount	...	Rs. 6,402
Allotment	...	„ 2,000
Expenditure and total expenditure	...	„ 1,446

239. The work projected comprises enlargement of the Nurwáh from the Nára to the Lal Phitta, a regulating sluice across the Nára below the head of the Nurwáh, a head and tail sluice to that canal, and a road bridge. Owing to difficulties connected with the flood water, and with the contractors, the masonry works could not be put in hand: a portion of the spoil banks of the Nurwáh was removed, its section enlarged, and woodwork for the sluices was procured.

Utilising surplus waters of Western Nára.

Estimated amount	...	...	...	...	... Rs. 56,796
Allotment ...	...	...	...	...	... „ 6,000
Total expenditure	...	...	...	...	... „ 4,727

240. This channel was cut for the purpose of throwing a supply of fresh water into the Kokawari branch of the Indus, the Oochta having lately become the main outlet of the river. The expenditure was considerably within the estimate, as it was found impossible to excavate the channel to the full depth before the inundation. The scour through the channel during the inundation, however, enlarged it to far beyond the estimated width and depth, and it was, therefore, unnecessary to spend anything more on it. The present benefit to the Shahbunder district is great, and this will increase during the current year.

Excavating a channel from River Oochta to the Kokawari.

Estimated amount	...	...	...	...	... Rs. 17,840
Allotment ...	...	...	...	...	... „ 17,840
Total expenditure	...	...	...	...	... „ 12,412

241. On ordinary clearances and Abkullanee in the division the expenditure was Rs. 1,09,698; and an expenditure of Rs. 3,883 was incurred on fixing stones in the beds of certain canals.

III.—DYKES.

242. **Upper Sind Frontier: Desert Canal Division.**—During the past unusually high inundation these bunds were severely tested, and in several places they were topped by the water, which caused two large breaches in the northern and two in the southern bund. The work, which had been going on slowly, owing to the nature of the soil and the scarcity of labour, is now completed.

Rupp Bunds.

Expenditure	...	...	...	...	Rs. 38,782

243. This work is at present being constructed under an Assistant Engineer in charge, but will, when completed, probably be handed over to the officer in charge of the Desert Canal, or Begári. On the 14th October the provisional sanction of the Government of India was obtained, and preliminary arrangements were made. On the 10th December, after great difficulties had been encountered and successfully overcome, a sufficient length of jungle had been cleared to allow of the work being commenced with 5,000 men that had been collected. By Christmas the number had increased to 10,000, and 18 miles of the work was in hand. In January, owing to various reasons, the number diminished to 5,000, and it was then decided to carry on the work departmentally. During February there were 14,000 men on the work, and work was going on over a distance of 32 miles. Owing to the unusually hot weather early in March, the muster began again to fall off, but the worst of the work was over, and by the end of the year, 38 miles were completed. The average height of bund completed is 12 feet, top width 8 feet, front and rear slopes 3 and 2 to 1. The earth has been consolidated in layers by rammers, and five 1-ton rollers. About 2 miles of the bund consists of almost pure sand, and in these places the front slope has been faced with matting. The jungle was cut for a length of 50 miles to a width of 250 feet, at a cost of about Rs. 250 a mile; and the centre portion for the bund, to a width of 70 feet, was cleared of all grass, roots of trees, &c., and ploughed up. Owing to the encroachments of the river at the south end of the bund, the last 3 miles of the bund had to be thrown back about ½ a mile, so as to get a good foundation, and to allow a clear space of about a mile between the bund and the river. The spoil banks of the Begári canal above the junction with the bund have been cut in 12 places, each 100 feet long, and the Begári itself has been bunded up, and will this year derive its supply from the Sind Dhora. Preparations for the construction of 3 sluices over the Sind Dhora, Nurwáh, and Bákshálíwáh have been made. The Sind Dhora sluice consists of fourteen 5-feet openings fitted with wales and baulks, and one 17-feet opening for a boat passage. The piers of the smaller openings are 2½ feet thick. The foundations are on wells sunk to a depth of 8 feet on an average. The piers are 9½ feet up to

Kashmor and Begári Bund.

springing line, and the work is completed up to this level. The Nurwáh sluice consists of four 5-feet arches fitted with wales and baulks, and the general construction is the same as the last work, except that there are no parapets to the road-way, there being no traffic over it. A service road, 10 feet in width, has been constructed along the whole length of the bund on the inner side, and road-crossings have been provided at intervals. Landies, wells and stores, for the accommodation of the establishment during the hot weather, have been provided, and a bungalow is being built near the Sind Dhora Sluice, with a store-room in which most of the tools and plant will be kept.

Estimated amount	Rs. 6,56,833
Allotment	„ 4,00,000
Expenditure	„ 3,55,624

244. **Shikarpur: Sukkur Canal Division.**—Rs. 2,279 were expended before the inundation on repairs to the breaches caused by the inundation of 1873. Those caused by the unusually high inundation of last year were 3 in number in the 15th, 17th, and 18th miles. They have been closed by slight diversions from the original line, so as to avoid the deep holes scoured out in the line of bund. Estimated amount Rs. 10,856, expenditure Rs. 10,571, and Abkullanee establishment was kept up on the Julli Bund during the inundation at a cost of Rs. 4,058.

Julli Bund.

245. **Hyderabad: Fullaili Division.**—These bunds, as might have been anticipated, suffered considerable damage owing to the height of water in the Indus, which in some places was washing over their tops. They stood well, however, and there were no breaches. They have been thoroughly repaired. All low places have been raised, and those parts most exposed to the wash of the floods have been protected by a hedge. Estimated expenditure on clearance and repairs to bunds Rs. 1,88,000, allotment Rs. 1,17,491, expenditure Rs. 2,500; total expenditure Rs. 2,500.

Hajipur Bunds.

246. **Kurrachee Collectorate Canals.**—This is for preventing the overflow of the river near Gungáni in the Sháhbunder districts.

Gungáni Bund.

Estimated amount	Rs. 14,329
Allotment	„ 14,329
Expenditure and total expenditure	„ 8,563

IV.—COMMUNICATIONS.

I.—ROADS.

247. **Bombay.**—A metalled road has been made from the south end of the new Colaba road to the old Colaba road, near the Portuguese chapel. The width is, including footpaths from the north end as far as the Parsee sanitarium, 50 feet. The remaining portion is not of uniform width, but it is in no place less than 25 feet, and it is without footpaths. Stone curbing has been laid on both sides of the road where there are no walls The work has been completed.

Estimated amount	...	...	...	Rs.	12,069
Expenditure during the year	...	...		„	9,648

248. **Kanara.**—The amount of expenditure is the balance decided by the Session Court to be due by this department on account of the claim of a metal contractor, which has been paid into Court in consequence.

Arbail Ghaut Road.

Estimated amount	...	...	...	Rs.	12,99,418
Expenditure during the year	...	...		„	2,755
Total expenditure	...	...	...	„	12,77,499

249. The earth-works have been nearly completed from Halyal to the Gotegherry Tank, and from the end of the previously completed road up to the Dharwar frontier. Some of the drains are also in progress.

Halyal and Lingunmutt Road.

Estimated amount	...	...	...	Rs.	15,000
Expenditure during the year	...	...		„	9,824
Total expenditure	...	...	...	„	9,908

250. **Dharwar.**—Completed. Some very bad portions between Hubli and Trimulcope, south of Hubli, have been made into a good metalled road.

Metalling Poona and Hurryhur Road.

Estimated amount	...	...	...	Rs.	3,881
Expenditure during the year	...	...		„	3,881

251. This road was laid out, cleared, and improved as a cotton feeder in 1861-62. But no regular coating of moorum was ever put on it, and a number of drains and small bridges are still required. The Rs. 5,000 promised for 1875-76 will complete all the small drains, and make the road passable at all seasons.

Improving road Gadak to Dambal.

Estimated amount	...	...	...	... Rs.	57,130
Expenditure during the year	...	...	...	... „	4,223
Total expenditure	...	...	...	... „	4,223

252. Has been lined out and marked, and the land taken up, so that the work can go on whenever funds are available.

Dambal and Hessrur Road.

Estimated amount (under revision)					
Expenditure during the year	....	...	...	... Rs.	706

253. Completed. This work includes the improvements of the irrigation tank, of which the road is the dam, by adding a waste weir and two sluices.

Improving Road south of Kittur. (Local Funds.)

Estimated amount	...	...	...	... Rs.	1,909
Expenditure during the year	...	...	...	... „	1,437

254. **Belgaum.**—Completed. The work carried out in 1874-75 consisted of the completion of the very necessary protection required on the outer edge of the Ghaut incline.

Parpuli Ghaut Road.

Estimated amount	...	...	...	Rs.	14,52,579
Expenditure during the year	...	...		„	19,996
Total expenditure	...	...	...	„	13,96,954

Road, Vingorla Bazaar to the Bunder.

255. The improvements to this road have been completed.

Estimated amount	... Rs. 3,640
Expenditure during the year	... „ 651
Total expenditure	... „ 3,613

Improving road Chandgad to Sirgaum. (Local Funds.)

256. Completed.

Estimated amount	... Rs. 5,621
Expenditure during the year	... „ 1,251
Total expenditure	... „ 4,727

Improving road, Kolhápur to Bijapur. (Local Funds.)

257. This work is in progress.

Estimated amount	... Rs. 7,350
Expenditure during the year	... „ 488
Total expenditure	... „ 946

Improving Road, Byl Hángal to Saundatti. (Local Funds.)

258. In progress.

Estimated amount	... Rs. 16,317
Expenditure during the y	... „ 2,998
Total expenditure	... „ 9,421

Improving road, Byl Hángal to Kittur. (Local Funds.)

259. In progress.

Estimated amount	... Rs. 11,619
Expenditure during the year	... „ 1,916
Total expenditure	... „ 7,359

260. **Ratnagiri.**—One culvert, of two 8-feet spans, has been completed. Forty feet of roadway remains to be constructed as soon as the question of compensation for the two shops to be removed is settled.

Kumbhárli Road through Chiplun Bazaar.

Estimated amount	... Rs. 5,693
Total expenditure	... „ 1,700

261. Three slab drains of sizes have been built, and their approaches raised to proper levels, with dry stone retaining walls on both sides of the road.

Road, Khed to Poladpur.

Estimated amount	... Rs. 29,438
Expenditure during the year	... „ 1,049
Total expenditure	... „ 17,532

Improving second section of the Kolhápur and Miruj Road. (State Funds).

262. **Kolhapur.**—Very little expenditure has been incurred on this work during the year.

Estimated amount	... Rs. 8,799
Expenditure during the year	... „ 73
Total expenditure	... „ 5,582

Azra and Garh Hinglaj Road. (State Funds).

263. This work will be completed before the rains of 1875.

Estimated amount	... Rs. 68,687
Expenditure during the year	... „ 11,176
Total expenditure	... „ 35,721

Constructing third section of Kolhápur and Amba Ghaut Road. (State Funds).

264. Completed.

Estimated amount	... Rs. 44,517
Expenditure during the year	... „ 11,856
Total expenditure	... „ 41,968

Improving second section of Kolhápur and Bhudurghar Road. (State Funds).

265. The work has been completed.

Estimated amount	...	...	Rs. 33,488
Expenditure during the year	...	...	„ 20,892
Total expenditure	...	...	„ 31,124

Improvements to the Miraj and Mysal Road. (State Funds).

266. Work nearly completed.

Estimated amount	...	...	Rs. 5,619
Expenditure during the year	...	...	„ 2,965
Total expenditure	...	...	„ 2,965

Constructing portion of the Arjunwad and Kurundwar Road. (State Funds).

267. This work will be finished in 1875-76.

Estimated amount	...	...	Rs. 7,872
Expenditure during the year	...	...	„ 1,974
Total expenditure	...	...	„ 4,567

Constructing road from Inchulkaranji to Attigheri. (State Funds).

268. In progress.

Estimated amount	...	...	Rs. 40,104
Expenditure during the year	...	...	„ 22,050
Total expenditure	...	...	„ 24,974

Constructing third section of Kolhápur and Miraj Road, (State Funds).

269. Completed.

Estimated amount	...	...	Rs. 25,846
Expenditure during the year	...	...	„ 20,510
Total expenditure	...	...	„ 25,663

270. **Satara.**—Considerable progress was made during the year under report, the work being confined chiefly to the sections below Ambenulla.

FitzGerald Ghaut Road.

On the 31st March, with the exception of three short lengths, amounting in all to about 1,500 feet, the Ghaut was opened out to its full width. The masonry bridge over the Quoina, of three 30-feet spans, was completed, with the exception of the parapets. The work remaining to be done on 31st March was, with the exception noted above, as follows:—(*a*) The parapet walls throughout; (*b*) about one-fourth the revetments; (*c*) one-sixth the drains. The total length of Ghaut is 19⅛ miles 208½ yards, and the height gained 3,850 feet, at the "Lady's Ring," from the river, at 53 miles from Nagotna

Estimated amount	...	...	Rs. 4,46,043
Expenditure during the year	...	...	„ 68,933
Total expenditure	...	...	„ 3,99,993

Metalling the road from Kurrar to the head of the Kumbhárli Ghaut.

271. The whole of the metal has been collected, and except for a length of 9 miles, spread and consolidated.

Estimated amount	...	...	Rs. 1,28,829
Expenditure during the year	...	...	„ 24,665
Total expenditure	...	...	„ 1,23,081

272. **Sholapur.**—Constructed during the year from railway station to Wangi; remainde to be carried out in 1875-76. This is the portion of the proposed Jeur Station and Indápur road, which lies in the Sholapur Collectorate. On completion as far as the Bhima, the road will be continued to Indápur by the Executive Engineer, Poona District.

Moorum Track between the River Bhima and the Railway Station at Jeur. (Local.)

Estimated amount	...	...	Rs. 3,265
Expenditure during the year	...	...	„ 1,628

273. Construction of drains and culverts to be completed in 1875-76. The small allotment permitted only of the construction of 2 culverts and 2 slab-drains during the past year. Of the total number of 5 culverts, and 67 drains, sanctioned, 3 culverts, and 59 drains, have now been constructed. This new road has been adopted as the mail tonga route since 1st December 1874.

Road from Barsi Road Station to Pandharpur. (Local.)

Estimated amount	...	...	Rs. 1,05,234
Expenditure during the year	...	...	„ 3,000
Total expenditure	...	...	„ 88,996

274. **Poona District.**—During the past year the embanked approaches to the Ghore River Bridge, on the Poona and Ahmednagar sides, have been completed. The embankments, which are high and without sufficient protection, have been planted with milk-bush, and afford easy approach to the Ghore Bridge from both ends.

Constructing approach road from the Poona and Ahmednagar Road to the new Bridge over the River Ghore.

Estimated amount	....	...	...	... Rs. 50,540
Expenditure during the year	...	...	...	... „ 4,434
Total expenditure	....	...	...	... „ 50,372

275. Two deviations have been made in the old Poona and Ahmednagar road, in order to avoid some very irregular ground and deep nullas near the villages of Ranjungaon and Kondapuri, which were found to present serious obstruction to the traffic. The total length of the deviations is 3,795 feet; in which distance have been constructed—

Constructing a new road deviation at Ranjangaon and Kondapuri, on the Poona and Ahmednagar Road.

1 bridge of 3 arches, each 15 feet span and 5 feet rise.
1 screw culvert, 10 feet span and 5 feet rise.
362,200 cubic feet embanking.
65,200 do. cutting.
1 irrigational channel.
1 culvert, 10 feet span, 5 feet rise.

Estimated amount	...	...	...	... Rs. 17,457
Expenditure during the year	...	...	...	... „ 16,959

276. The work on this line of road has, during the past year, progressed in proportion to the funds available. There is now a track, on an average 8 feet wide and 14 miles in length, on the approved trace. It is doubtful whether bullock traffic will take to the line opened, owing to its length. If made suitable for carts, it is believed a great want would be supplied.

Málsej Ghaut Road. (Local.)

Estimated amount	...	...	...	... Rs. 14,000
Expenditure during the year	...	...	...	... „ 4,250
Total expenditure	...	...	...	... „ 11,161

277. The road is 17 miles in length, and its condition has been improved to the extent that the funds available would admit of. There is a great deal of traffic on the line, and a better description of road may hereafter be found necessary.

Spreading moorum and otherwise improving the road from Lukripul to the village of Pour. (Local.)

Estimated amount	...	...	...	... Rs. 5,529
Total expenditure	...	...	...	... „ 5,502

278. The total length of this piece of road is 8 miles (3 in hill-side cutting), and it will prove to be a most useful line, connecting the old Poona and Satara road with the new, across very rough country between Sassur and Kappurhol, and admitting of direct communication from Sassur and the neighbouring towns to the port of Mhar, viâ Bhore and the Vuranda Ghaut.

Opening out Ghaut track across Sabgir Khind to connect Sassur with the new Satara Road. (Local.)

Estimated amount	...	....	...	... Rs. 6,261
Expenditure during the year	...	...	...	... „ 3,259
Total expenditure	...	...	...	... „ 6,097

279. **Northern Konkan.**—The new road from Gagoda Khind to Campuli has progressed satisfactorily. This road, 12 miles in length, completes the communication between the salt-works about Penn, and the bunder at Dhurumtur on the Nagotna Creek, with the old Borghát road at Campuli. From Dhurumtur to Gagoda Khind, 12 miles, the road has for some time been finished, bridged, drained, and moorummed, and from Gagoda Khind to Campuli is now in progress. The traffic along this line is very great, carts and cattle bringing down grain from the Deccan, and returning with salt; the want of the road has long been felt, and the tolls on it will probably prove remunerative. The contractor has worked satisfactorily, the masonry proceeding consecutively with earthwork. Four miles of roadway with bridges and drains (from Gagoda Khind to Serole), and including one bridge of 4 spans, of 25 feet each, 2 bridges of 1 span, each 25 feet, and several minor drains, are in a

Road from Gagoda Khind to Campuli.

forward state, and will be open by the rains, with the exception only of laying down metal. The whole road has been lined out, and the ground taken over from the Revenue Department.

Estimated amount	Rs.	1,59,986
Expenditure during the year	„	41,985
Total expenditure	„	43,793

Road from Dhurumtur to Gagoda Khind.

280. The first portion of the above main line, viz., from Dhurumtur to Gagoda Khind, is being metalled; the full supply of metal has been nearly provided, and will be so entirely by the rains of 1875, when a good hard surface will be obtained.

Estimated amount	Rs.	44,803
Expenditure during the year	„	21,979
Total expenditure	„	24,655

Jawár Ghaut. (Contributions.)

281. The ghauts at Jawár have been finally completed.

Expenditure from commencement to completion of work	Rs.	84,284
Establishment, being contribution work	„	10,875
	Rs.	95,159

Roads to connect all Government buildings at Bhusáwal, and 3 drains of 2-feet span each.

282. **Khandesh.**—Owing to want of rain last monsoon at Bhusáwal, this road could not be finished. The bank has been thrown up, the drains built, and the moorum collected. After the bank has been properly consolidated, the road will be finished up.

Estimated amount	Rs.	3,913
Expenditure during the year	„	2,913

Metalling the Kondaibari Ghaut, on the Dhulia and Surat Road.

283. Breaking and collecting metal was in progress; about 129,595 cubic feet were prepared. Work could not be commenced until late, owing to the unhealthy climate; the biggaries were attacked with jungle fever, and left the work.

Estimated amount	Rs.	19,391
Expenditure during the year	„	8,951
Total expenditure	„	11,499

Road between Kujgaum Railway Station and Parola. (Local Funds.)

284. This road was finished by the 31st March; 2 extra drains have been built. In the original designs 2 nullahs had been diverted; these diversions were found not to answer. The nullahs were spanned by drains, 6 feet by 4 feet respectively. The moorum along this line is not very good, and, owing to the scanty all of rain, has not been very well consolidated. 47,960 cubic feet of embankment, and 190,845 of moorum were carried out during the year under report. Slight additions to masonry works were also carried out to finish up the various bridges and drains on the road. This road carries very little traffic; the Parola cotton now goes to Jalgaon.

Estimated amount	Rs.	1,57,762
Expenditure during the year	„	4,687
Total expenditure	„	1,32,097

Road from Dhulia to Pimpalner. Local Funds.)

285. During the year this road has been pushed on vigorously; 745,081 cubic feet of bank, 584,064 cubic feet of moorum ballast, and 33,730 cubic feet of cutting in moorum, have been carried out. Seven bridges as follows:—3 of 2 arches of 10 feet, one of 1 arch of 20 feet, and 3 of one arch of 10 feet have been completed; and also seven drains as under:—3 of 1 foot by 3 feet, 2 of 1 foot by 4 feet, and 2 of 1 by 5 feet. After next rains the road will be finished up to Kosumba, with the exception of a small break about 2 miles from Dhulia, which has been left unfinished until the waste-weir of the Mukti Tank has been constructed.

Estimated amount	Rs.	2,39,632
Expenditure during the year	„	27,565
Total expenditure	„	1,03,257

Metalling the Bilimora and Chikhli Road in British Territory.

286. **Surat and Broach.**—The earth-work has been nearly finished, metal from road surface removed, and about 18,000 cubic feet of metal carted on the side of the road. In progress.

Estimated amount	...	Rs. 5,485
Expenditure during the year	...	„ 3,376
Total expenditure	...	„ 3,376

Constructing the Broach and A'mod Road with Bridges and Culverts. (Local Funds.)

287. Earthwork to the extent of 36,394 cubic feet has been done; two culverts, one of 10-feet span, and the other of 20-feet span, respectively, have been completed, and several other culverts of different dimensions are in progress. In progress.

Estimated amount	...	Rs. 2,70,596
Expenditure during the year	...	„ 20,005
Total expenditure	...	„ 2,37,450

Completing Railway Feeder Road from Ankleswar to Hánsot. (Local Funds.)

288. Earth-work and approaches washed away during the last rain have been executed All masonry works—such as bridges, culverts and drains—have been completed, with the exception of the Amrakhari, which is unbridged. 52,444 cubic feet of stone metal have been collected on the side of the road. In progress.

Estimated amount	...	Rs. 2,13,826
Expenditure during the year	...	„ 15,836
Total expenditure	...	„ 1,71,681

Improving the road from Thásra to Palli and building culverts, &c.
Do. do. from Simluj to Thásra.
Completing as a metalled road the section of the A'nand and Godhra line between Thásra and Palli.
Do. do. from Simluj to Thásra. (Local Funds.)

289. **Kaira.**—All these estimates are for works required to complete as a metalled road, the section between Simluj and Palli, forming a portion of the line between the new railway terminus at Dákor and Dohad in the Panch Máháls. There is very large traffic on this route towards Rutlam and Central India generally, while the local trade it carries between the Panch Máháls and the Kaira districts is already considerable, and appears to be steadily increasing. On the section between Simluj and Palli, 17 miles, all the bridges and culverts required have been built, the earth-work completed, and 15 miles of road have been metalled—7 in the official year under report, and 8 previously. Two miles still remain; but this has been delayed, as the railway terminus, on which its completion depended, was settled too late for it to be finished during the last monsoon. There is a possibility of the Dákor Branch being extended to Palli, in which case this road will most likely be made use of to carry the line. The works will all be finished in the official year 1875-76.

Names of Works.	Estimated Amount.	Expenditure during the year.	Total Expenditure
	Rs.	Rs.	Rs.
Improving the road from Thásra to Palli and building culverts, &c...	41,219	1,797	35,396
Improving the road from Simluj to Thásra	32,073	3,712	21,130
Completing as a metalled road the section of the A'nand and Godhra line between Thásra and Palli	31,672	7,850	31,119
Completing as a metalled road between Simluj and Thásra ...	18,064	3,477	13,173

Godhra and Dohad Road. (Local Funds.)

290. This is the final section of the line from the Dákor Railway terminus to Dohad, and is very important both to the Kaira districts, the Panch Máháls, and also to the neighbouring Native States. The line is 43 miles in length, of which 23 are in British, and 20 in Bária territory. The cost of the latter is met from special funds, and of the former from provincial and local allotments. The road was originally projected as a cleared line with culverts and bridges throughout, and with earth-work and metalling for difficult ground only. By minor deviations in the location of the line, which runs in jungle country, considerable savings were effected, and a proposal for completing the whole with metal was submitted to, and sanctioned by, Government. All earth-work, bridges, culverts, and drains have been completed, 30 miles of stone metalling have been finished, and the metal for the remaining 13 miles stacked. In the coming season, 1875-76, the metalling of the whole line

will be complete, and a first class communication will then exist between Godhra and Dohad There is at present very large traffic, and it will increase when the section between Palli and Godhra is finished.

Estimated amount ...	...	...	... Rs. 4,81,935
Expenditure during the year	...	...	... „ 51,810
Total expenditure ...	...	...	... „ 3,71,404

291. It is proposed to embank and metal with kunkur a cleared road between the railway at Wásad and the locally important town of Borsad, a distance of 11 miles. The work has been pushed on, and will probably be completed about the end of 1875-76.

Completinga (as a 2nd class metalled) the road from Wásad to Borsad. (Local Funds.)

Estimated amount ...	...	...	... Rs. 41,325
Expenditure during the year	...	...	... „ 8,881

292. This is the first section of a road joining Kaira with Dholka; and it is proposed to treat it in the same manner as the Wásad and Borsad road, just referred to. As embankments have to be allowed to settle and consolidate, the work cannot be completed until the end of 1876.

Completing (as a 2nd class metalled) the road from Kaira to Wasna. (Local Funds.)

Estimated amount ...	...	...	... Rs. 15,882
Expenditure during the year	...	...	... „ 1,495

293. This road, nearly a mile in length, includes a bridge over the Seri River of 3 spans, 60 feet each; piers and abutments of brick and lime masonry, and wrought-iron superstructure; the surface to be metalled with stone; materials are now being collected, and masonry work is in progress. It is anticipated that the bridge will be open for traffic by the rains.

Road from Dákor to Rukhial. (Local Funds.)

Estimated amount ...	...	...	... Rs. 50,835
Expenditure during the year	...	...	... „ 21,896

294. This small piece of road, about six furlongs in length, is to be metalled with kunker Materials have been prepared, and the work will be finished shortly.

Road from A'nand to A'nand Railway Station. (Local Funds.)

Estimated amount ...	...	...	... Rs. 3,219
Expenditure during the year	...	...	... „ 1,573

295. It is proposed to improve this line, which joins the chief town of the Bária State with the Godhra and Dohad Road. The length of the road will be about 8 miles, and there will be one bridge of 3 spans, 20 feet, and several smaller structures. The surface will remain as a clearance only with bridges, &c., and with small embankments where required. The work has only lately been sanctioned, materials are being collected, and the foundations of some of the bridges are in progress. Work will, it is anticipated, be completed during the next year.

Improving the road from Piplod to Bária.

Bridges and culverts on the road from Piplod to Bária. (Local Funds.)

Names of Works.	Estimated Amount.	Expenditure during the year.	Total Expenditure.
	Rs.	Rs.	Rs.
Improving the road from Piplod to Bária...	1,512	1,220	1,220
Bridges and culverts on the road from Piplod to Bária ...	28,498	959	959

296. **Ahmedabad.**—Two-thirds of the cost of constructing this line are to be defrayed from Local Funds, and one-third from Provincial Funds. The road has been divided into 2 portions—(1) Main Line, and (2) Branch Line. The main line is to connect the town of Sánand with the railway station, and the 2nd (branch line) to connect the old Viramgám road, which passes to the south of the town, with the main line. The road has been cleared, embanked, and drained to a width of 16 feet at formation level. A bridge, of 7 arches, each 15-feet span, is completed, with the exception of parapets. Part of the road has been surfaced with broken bricks and kunker, well watered, rammed, and consolidated, and the arrangements for surfacing the remainder are being made.

Road from the Town of Sánand to the Railway Station. (Local Funds.)

Estimated amount	... Rs. 21,014
Expenditure during the year	... „ 14,097
Total expenditure	... „ 14,703

II.—BRIDGES.

Bridge over the Tattihalla near Tergáum. (Local Funds.)

297. **Kanara.**—This work has been completed, and opened for traffic.

Estimated amount	... Rs. 22,058
Expenditure in 1874-75	... „ 7,695
Total expenditure	... „ 21,902

Bridge across Chendia Creek.

298. This workwas stopped by order, after some materials had been collected.

Estimated amount	... Rs. 16,396
Expenditure during the year	... „ 3,249

Bridge over Tattihalla Nullah near Haliyál. (Local Funds.)

299. This bridge has been entirely completed, and opened for traffic.

Estimated amount	... Rs. 35,682
Expenditure during the year	... „ 10,281
Total expenditure	... „ 35,192

300. **Dharwar.**—This bridge is situated about 51 miles from Dharwar, on the Tena Ghaut road. It is of three 52-feet spans, 34 feet above bed of the stream. The roadway is supported on trussed wooden girders; the compression beam and struts being of teak, and the tension bars of flat iron. There are 3 girders in the width. The roadway is 12 feet wide, formed of uncut teak rafters spiked to the girders, covered with concrete brought to a barrelled shape, and a little moorum and gravel. The hand rail is of teakwood. The piers and abutments are of granite masonry; they were originally intended for an arched masonry bridge. This year the girders have been erected, being built *in situ* by means of temporary scaffolding. The bridge has been completed.

Sawarcope Bridge.

Estimated amount	... Rs. 27,525
Expenditure during the year	... „ 4,035
Total expenditure	... „ 27,373

301. This is a bridge of four 40-feet spans, with masonry abutments and piers. The bad foundation necessitates the use of cofferdams. The allotment of Rs. 2,000 for 1874-75 was merely made to allow of a commencement and preliminary arrangements being made. This has been done, and the work is in hand.

Sirgupi Bridge.

Estimated amount	Rs. 45,976
Expenditure during the year	„ 1,779

Gotur Bridge on Poona and Madras Mail Road.

302. **Belgaum.**—Completed. A masonry bridge, with five 27-feet arches, the rise being one-fifth of the span

Estimated amount	Rs. 23,296
Expenditure during the year	„ 8,354
Total expenditure	„ 23,256

303. **Ratna'giri.**—During the year, 132 slab drains of sizes, and 12 culverts of spans from 4 to 10 feet, have been built. The approaches to the culverts and drains have been raised, the roadway widened, and in some cases dry stone retaining walls have been built. Nine unfinished deviations have been completed, and the roadway made available for carts.

Bridges and Drains on Ratnágiri and Chiplun Road.

Estimated amount	...	Rs. 1,01,085
Expenditure during the year	...	„ 26,412
Total expenditure	...	„ 49,243

304. Nine slab drains of sizes, and five culverts of spans varying from 6 feet to 8 feet, have been substituted in place of the old timber drains and culverts.

Culverts and Drains on the Hathcombi and Dajipur Road.

Estimated amount	...	Rs. 3,900
Expenditure during the year	...	„ 3,556
Total expenditure	...	„ 3,756

305. Earth-work in approaches to culverts and drains, and some stone pitching and pointing, have been carried out during the year. Work completed.

Bridges and Drains on Deogarh and Phonda Ghaut Road.

Estimated amount	...	Rs. 31,611
Expenditure during the year	...	„ 3,797
Total expenditure	...	„ 31,533

306. A bridge of three spans, 12 feet each, with timber roadway, has been completed.

Bridge over Pendur Nullah. (Local Funds.)

Estimated amount	...	Rs. 3,397
Expenditure during the year	...	„ 1,311
Total expenditure	...	„ 2,924

307. **Kolha'pur.**—This bridge has been finished. At the close of the last official year there remained only the wooden railing to the embanked approaches, the painting of the iron works, and the little finishing touches required in a large work. All these have now been done. The ironwork has been protected with five good coats of patent paint, and the bridge finished off in a workmanlike manner.

Bridge over the Punchgunga River at Unchgaon. (Contribution.)

Estimated amount	...	Rs. 3,04,971
Expenditure during the year	...	„ 3,455
Total expenditure	...	„ 2,96,169

308. This bridge, which consists of five stone arches of 70 feet span, was commenced with the official year. It was given in contract to Messrs. Ramchunder Mahadev & Co., of Bombay and Poona. The rock forming the bed of the river being very rotten and bad, has added much to the difficulty and cost of getting in the foundations. On the 31st March one abutment and one pier were brought up to springing, No. 2 Pier is within 12 feet of the springing level, and the foundations of No. 3 were laid.

Bridge over the Punchgunga River at Kolhápur. (Contribution; State work.)

Estimated amount	...	Rs. 1,84,374
Expenditure during the year	...	„ 21,431
Total expenditure	...	„ 21,431

309. This is a lofty masonry bridge of eleven 70-feet spans. The height of roadway above bed of river will be 80 feet. The work was commenced in January, but could not make much progress for want of plant. This plant required time for its collection. Excavation of foundations for six piers is in hand.

Bridge over the Krishna River at Udgaum.

Estimated amount	...	Rs. 3,61,236
Expenditure during the year	...	„ 13,179

310.—**Satara.** This bridge, when completed, will consist of four 40-feet segmental arches, having a rise of $\frac{1}{4}$th the span; the masonry throughout is of stone. The piers are to be 43 feet to springing, and founded on rock, which is found at an average depth of 26 feet below the river-bed. The first 8 feet of the foundation of the southern abutment were laid by the middle of March, when further progress and the work

Bridge over the Tárli River near Umruj.

generally was stopped by freshes in the river, which did considerable damage, and caused much delay. The excavation of the foundation has been attended with considerable difficulties, owing to the large amount of water in the river-bed, which could only be kept under by having two 8″ centrifugal pumps constantly at work, and for weeks together, day and night. The system of open-pit excavations has been followed; as, owing to the presence of the foundations of the old bridge, and the absence of any suitable material at hand, cofferdams would have been too costly. A large quantity of stone and other materials have been collected, and the work is now well in hand.

Estimated amount	Rs.	98,530
Expenditure during the year	„	14,317
Total expenditure	„	14,348

Bridge over the Ituli Nulla and Culvert on the Shirwul and Warna Road.

311. This is a small bridge of three 22-feet spans, made of iron-rail girders, carried on piles, made also of iron rails shod with 24″ Mitchell's screw The roadway is supported on teak baulks, carrying corrugated iron sheets, over which the metalling is laid. The abutment and pier piles were got into position, and the dry-stone pitching to the approaches completed during the year under report. Nearly all the materials were collected.

Estimated amount	Rs.	6,342
Expenditure during the year	„	2,705

Bridge over the Chinchnair Nulla on the Satara and Tasgaon Road. (Local.)

312. This is a masonry bridge of three 20-feet arches. It was commenced by the Local Fund Department, and only handed over to the Public Works Department in February, when the piers and abutments, which are 8 feet high, were nearly completed. The arches were turned by the Public Works Department.

Estimated amount	Rs.	3,450
Expenditure during the year	„	2,726

Constructing a new Masonry Bridge across the Muta River at Sungum.

313. **Poona and Kirkee.**—The last two arches were turned, and the spandril and parapet walls finished. The roadway was filled in with moorum, and a coating of metal laid over it and consolidated. Guard-stones have been provided. The bridge was opened for traffic on the 31st May 1874.

Estimated amount	Rs.	1,23,714
Expenditure during the year	„	34,956
Total expenditure	„	1,21,210

Constructing Culverts on the Munmar and Kopergaum Road.

314. **Na'sik.**—On this line of road, between miles Nos. 14 and 15, near the town of Yeola, there are three separate nullas, which in the rainy season are almost impassable, and even in fair weather are a great obstruction to traffic. To obviate this the course of the first nulla has been blocked up, and its current carried to join that of the second nulla, over which a culvert of 2 arches, each of 12-feet span, has been constructed. A drain of 4 vents (each 3 feet in diameter) has also been constructed on the third nulla. In progress.

Estimated amount	Rs.	6,825
Expenditure during the year	„	5,345

Constructing Bridges on the Munmar and Yeola Road.

315. The portion above springing of the condemned bridge No. 39, on the Munmar and Yeola Road, has been taken down and rebuilt. A bridge of 30-feet span has also been erected on the next nulla, exactly similar in dimensions and style to No. 39. In progress.

Estimated amount	Rs.	8,871
Expenditure during the year	„	4,823

Bridge over Huruf River, on the Godhra and Dohad Road. (Local Funds.)

316. **Kaira.**—This bridge, on the Godhra and Dohad road, in the territory of His Highness the Raja of Bária, was nearly completed in 1873-74, and was finished and opened for traffic before the rains of 1874. The bridge consists of 4 spans, each 60 feet, masonry piers and abutments, with wrought-iron superstructure.

Estimated amount	Rs.	66,490
Expenditure during the year	,,	420
Total expenditure	,,	55,266

317. **Lower and Central Sind.**—The majority of the bridges in the division have been completed. The bridging of six dhoras in the Umarkot and Digri talukas have been transferred to the Executive Engineers Eastern Nára and Fulaili Division.

Ahmedabad and Hyderabad Postal Road.

Estimated amount	Rs.	69,596
Expenditure during the year	,,	15,588
Total expenditure	,,	22,164

Bridge on the Punjari.

318. This was completed last year. The expenditure shown was simply a settlement of the contractor's accounts.

Estimated amount	Rs.	17,857
Expenditure during the year	,,	4,810
Total expenditure	,,	18,014.

Bridge over Karo Phitta.

319. Described in last year's report. Completed.

Estimated amount	Rs.	5,069
Expenditure during the year	,,	2,837
Total expenditure	,,	5,082

Both these works were carried out from Local Funds.

IV.—ACCOMMODATION FOR TRAVELLERS.

Reconstructing Out-houses, Travellers' Bungalow, Trimulcope.

320. **Dharwar.**—Completed.

Estimated amount	Rs.	1,970
Expenditure during the year	,,	521
Total expenditure	,,	1,675

Dhurumshala at Mehluj.
Do. at Kunij.
(Local Funds.)

321. **Kaira.**—These buildings were nearly completed at date of last report, and have since been finished and opened.

Names of Works.	Estimated amount.	Expenditure during the year.	Total expenditure.
	Rs.	Rs.	Rs.
Dhurumshala at Mehluj	3,195	495	2,980
Do. at Kunij	3,195	888	2,873

V.—MISCELLANEOUS PUBLIC IMPROVEMENTS.

I.—MUNICIPAL.

Construction of an additional drain on the Colaba Reclamation, north of Mrs. Hough's compound.

322. **Bombay**—Completed. The work has been executed by the B. B. and C. I. Railway Company's contractor, and the payment thereof made by the Executive Engineer at the Presidency.

Amount of estimate	...	Rs. 6,249
Expenditure	...	„ 6,247

Completing the Reclamation of the Colaba Foreshore.

323. Completed. The work has been executed by the Railway Contractor, under the orders of the Consulting Engineer for Railways, and the payment thereof made by the Executive Engineer at the Presidency.

Amount of estimate	...	Rs. 45,600
Expenditure during the year	...	„ 2,478
Total expenditure	...	„ 42,602

Ride and Foot-path along the Sea-face of the Back Bay Reclamation.

324. The whole of the work, with the exception of the portion that is to be on the reclamations that are now in progress, near the Marine Lines Station, is completed. The iron railing and gates at Chowpatty have been completed, and those near the Cooperage over-bridge have just been commenced.

Amount of estimate	...	Rs. 15,402
Expenditure during the year	...	„ 1,886
Total expenditure	...	„ 10,837

Turfing and planting with shrubs Plot No. 3 on the Back Bay.

325. The work is in progress. The posts of the wire railing are nearly completed.

Amount of estimate	...	Rs. 4,459
Expenditure during the year	...	„ 499

Re-arranging the Sidings on the Cotton Green at Colaba.

326. Completed. This work has been carried out by the Resident Engineer of the Bombay, Baroda, and Central India Railway, and the payment made by the Executive Engineer at the Presidency.

Amount of estimate	...	Rs. 21,082
Expenditure during the year	...	„ 1,900
Total expenditure	...	„ 21,067

Nine Wells, Petta Mundagod.

327. **Kanara.**—These wells have been completed.

Estimated amount	...	Rs. 6,242
Expenditure during the year	...	„ 4,920
Total expenditure	...	„ 6,221

Inchalakaranji Water-supply (State Funds.)

328. Foundations of pumping tower and pipes laid. Cisterns built. The work will be finished in the beginning of the next calendar year.

Estimated amount	...	Rs. 65,831
Expenditure during the year	...	„ 3,876
Total expenditure	...	„ 68,386

Lining and Puddling Storage Tank, Inchalakaranji (State Funds).

329. **Kolha'pur.**—Work nearly complete. The tank will be a great ornament to the town.

Estimated amount	Rs.	17,540
Expenditure during the year	„	5,394
Total expenditure	„	9,364

Kágal Water-supply (State Funds.)

330. Pucka head works in progress.

Estimated amount	Rs.	30,043
Expenditure during the year	„	27
Total expenditure	„	29,973

Jámkhandi Water-supply (State Funds).

331. Work in abeyance.

Estimated amount	Rs.	27,777
Expenditure during the year	„	30,419
Total expenditure	„	38,271

332. **Ahmednagar.**—There was a provincial grant of Rs. 1,347, and the rest was paid by the Ahmednagar Municipality. A diversion, 1,500 feet in length, by which the main duct has been brought through a lane between two enclosures, instead of through a private enclosure, has been made with earthen-ware pipes, 8″ diameter, laid in rubble stone and lime masonry, 3 feet square in cross section.

Relaying a portion of the Kapurwari Aqueduct.

Estimated amount	Rs.	4,040
Expenditure during the year	„	3,786

333. **Northern Konkan.**—The new dam at Matheran, in the main valley between Panorama and Hart Points, has been commenced. It is a masonry dam, some 160 feet long at top, and 33 feet in height. It has been raised more than half height; but owing to want of water, the work has been suspended until after the rains. It will not be advisable to open this tank to the full height. for one season after its completion at least. The lime of the district is not hydraulic, though it is very fair, and hardens away from water, so that the longer it is allowed to ripen the better, and the tank need not, it is thought, be filled to its full height for some years to come.

Dam at Matheran (Local Funds).

Estimated cost	Rs.	16,260
Expenditure during the year...	„	12,089

334. **Kaira.**—The wells at Bajipura, Surli, and Oomreth have been finished, and the others are in progress. Those at Aklacha, Alina, Raska, and Wásad will be ready before the rains, and the others in the next working season. Some of these wells are very deep, the Wásad well having a depth of 90 feet, and progress under these circumstances, to be economical, cannot be rapid.

Well at Bajipura Ode.
„ at Aklacha.
„ at Wásad.
„ at Surali.
„ at Alina.
„ at Raska.
Improving well at Omreth.
Well and trough at Sumaspur.

Well at Khandli.
„ at Kasipur.
„ at Wasna.
„ at Meghwa.
„ at Sonipur.
„ at Bhedwa.
(Local Funds.)

Names of Works.	Estimated Amount.	Expenditure during the year.	Total Expenditure.
	Rs.	Rs.	Rs.
Well at Bajipura Ode	3,350	207	2,863
Do. at Aklacha	2,307	994	2,125
Do. at Wásad	2,766	1,316	2,611
Do. at Sarali	2,766	2,187	2,726
Do. at Alina	2,719	1,371	2,028
Do. at Raska	1,213	682	980
Improving well at Omreth	1,757	477	1,716
Well and trough at Sumaspur	1,457	779	779
Do. at Khandli	2,031	599	599
Do. at Kasipur	1,065	597	597
Do. at Wasna	1,968	1,147	1,147
Do. at Meghwa	1,806	785	785
Do. at Sonipur	2,439	672	672
Do. at Bhedwa	551	238	238

Tank at Dedurda.
Deepening and embanking tank at Arira.
Ditto at Chuklasi.
Deepening and excavating tank at Kuthole.
Tank at Franja.
Completing tank at Ode.
Constructing gurnalas to tank at Dehmi.
Excavating tank and constructing gurnalas at Bhedwa.
Muleshwur tank at Náriad.
Excavating tank at Ambu.
(Local Funds.)

335. All these have progressed satisfactorily. The Ode tank has been almost finished, and will, it is anti cipated, prove a most usefulwork. The other tanks will be ready before the rains, and will materially improve the water-supply of the villages interested.

Names of Works.	Estimated amount.	Expenditure during the year.	Total expenditure.
	Rs.	Rs.	Rs.
Tank at Dedurda	5,967	2,461	3,918
Deepening and embanking tank at Arera ...	6,067	3,502	4,502
Do. do. at Chuklasi ...	2,011	980	1,841
Do. and excavating tank at Kuchole ...	1,986	389.	861
Tank at Franja	2,154	504	504
Completing the tank at Ode	8,671	6,089	7,219
Constructing gurnalas to the tank at Dehmi ...	1,662	1,075	1,075
Excavating tank and constructing gurnalas at Bhedwa	1,169	924	924
Muleshwar tank at Náriad	1,785	1,286	1,286
Excavating tank at Ambu	1,978	1,064	1,064

Construction of 4 wells on the extra Municipal Roads out of the City of Ahmedabad.

336. **Ahmedabad.**—The wells are 6 feet internal diameter, and 40 feet deep from the level of the ground, and the masonry work has been raised to 14 feet over the khijra ring. In progress.

Estimated amount	Rs.	3,848
Allotment from Provincial Funds	„	1,924
Contribution from Municipality	„	1,924
Expenditure during the year	„	1,900

Bund for the protection of Kotri.

337. **Kurrachee.**—The works described in para. 346 of the Administration Report of 1873 have been completed.

Estimated amount	Rs.	19,809
Expenditure during the year	„	250
Total expenditure	„	20,470

II.—HARBOUR IMPROVEMENTS.

338. **Bombay.**—Pumice concrete blocks (6′×3′×2′4″) have been laid longitudinally from the outer end of the stone pier, and with 1′3″ intervals between them, not only to save materials, but to allow of the flow of the sea between them, so as to decrease the amount of accumulation against the sides of the structure. Upon these blocks a similar course has been laid, breaking bond with the lower ones. A footway, 2′9″ wide, at a height of 4′3″ above the surface of the ground, throughout the full length (1,000 feet) of the work, has thus been provided, and this height is a convenient one for landing from, or getting into, a bunder boat. Completed.

Extension of the Pier at Elephanta.

Amount of estimate	Rs.	5,846
Expenditure during the year	„	5,514

339. More than three-fourths of the work of constructing the stone bulwark, and of filling in of earth and sand, has been done. The work done since the south-west monsoon of 1874 has been mainly by means of boats, instead of by railway, as previously.

Reclaiming the ground for rounding off the angle near the Sonapore Drain.

Amount of estimate...	Rs.	1,29,910
Expenditure during the year	„	21,928
Total expenditure	„	63,555

340. **Surat and Broach.**—All the sheet piling, with the exception of 40 feet, was driven this year. About 145′ of the wall have been raised 15′ in height, and a length of 40′ about 3′ in height from foundation. The remainder of the sheet piling will be driven this season, and the whole wall raised to an uniform level of 15′ in height before the monsoon sets in. In progress.

Masonry Wall in front of the Dutch Bunder at Surat.

Estimated amount	Rs. 52,307
Expenditure during the year	„ 15,922
Total expenditure	„ 31,835

341. **Kurrachee Harbour Works.**—The series of works designed for the improvement of this harbour by Mr. Walker, and worked out by Mr. Parkes, was last season brought to a successful termination by Mr. Price, who then went on leave. Since then existing works have been maintained, and periodically reported on; projects for further works have been discussed, and estimates for them submitted; and the sanction of Government to the most urgent solicited.

342. These periodical examinations of the conditions of the harbour have been carefully and faithfully carried out by Mr. Humby, and the results duly reported on. The prominent features observable in reference to these surveys have been :—

Harbour Surveys.

1stly.—A steady improvement in the state of the entrance channel.

2ndly.—The formation of deposits at the inner end of the above channel, due, it is considered, to the effects of the unfinished state of two works, Deep-Water Point Removal, and the East Pier.

3rdly.—Abnormal deposits of silt in the anchorages (particularly that at Keamari), brought down by the tidal scour from the New Channel, and the Chinna Creek backwaters.

4thly.—A vast and continuing improvement in the state of the New Channel, east and west of the mole bridge, which is deepening and widening under the action of the ebb scour.

As regards the silting up of the anchorages, it is found that the Lower Anchorage has lost during the year about half a million cubic feet of water space; the Manora Anchorage about 1 million cubic feet; and the Keamari Anchorage about 3½ millions of cubic feet, all measured below datum. The whole harbour water-space has, therefore, diminished by nearly 4½ millions of cubic feet of water-space, from silt brought down from the New Channel and Chinna Creek back-waters in 1874-75.

343. This simply means now improving the entrance channel. This channel, formed through the old bar, is intended to be 500 feet wide, and 20 feet deep at low-water springs (datum level). This may now be said to have been practically effected; for, except that soundings of a few inches less than 20 feet are to be obtained along the edges of the channel, there is nothing to prevent vessels drawing less than 20 feet passing freely in or out of the harbour at all times and tides. Even heavily-laden vessels of 24-feet draught can pass out or in on any day in the year, as exemplified by the case of the "Bellona," which, drawing 24 feet, passed out on a low neap tide on the 31st of December. This day the tide, according to the gauge, rose only 5 feet 3 inches over datum. The dredge was employed on this work during the first and last three months of the official year, and removed 91,500 tons (1,830,000 cubic feet) of sand and loosened rock (loosened by the divers). The rate was 9 annas per ton. A party of dress divers was employed during 5½ months in blasting and removing rock from the bottom of the channel. In their operations 412 tons of rock were raised and removed at an expenditure of 1,850 lbs. in gunpowder, and Rs. 8,000 in money.

Bar-dredging.

344. This structure has stood the effects of the south-west monsoon very satisfactorily. Only 3 concrete blocks were washed out, and this from the extreme end; with them went the temporary iron beacon placed thereon. One of these blocks was replaced by a mass of concrete formed *in situ*, but the two outer blocks have not been restored; as it is not certain, nor could it be ascertained clearly, whether the substructure is sufficiently undisturbed to make the restoration advisable for the present. It is a curious fact that one of the blocks which was on the top tier last year now rests in the place of the last block of the 2nd (next lower) tier, so that the top and next lower blocks, east side, must have been first washed out, and the end top block of the west side must then have been washed exactly into the vacant place. The beacon has been replaced by one without stays as less likely to offer obstruction to the seas. It is formed by 3 railway metals bolted flange to flange, with a central round bar forming the upper 6 feet. The south-

The Manora Breakwater.

west monsoon was not heavier than the average, but on the 28th of July the port was visited by a violent storm having the characteristics of a cyclone, and much above the average of monsoon gales; during this the above-mentioned injury occurred. After the monsoon it was observed that some of the blocks on the sea or west side of the break-water had been slightly displaced at a place between 256 and 356 feet, measured from the shore end. Those of the blocks which had been shifted most—22 in number—were lifted by the Titan, and the top of the next course having been dressed level, the blocks were re-set in cement. The last block, being in place of that first removed and which had, of course, to be destroyed, was formed *in situ*. In order to avoid, if possible, any displacement during the season, the blocks are chained together at all places where it is thought such is at all likely to occur. This expedient, it is thought, will probably prove effective, and, if so, will obviate the inconvenient loss of a block. The end blocks are also chained to those of the next rows. 250 tons of rubble (large boulders principally) were deposited on the base on the harbour (east) side. This rubble was stone removed by the divers from the entrance channel, and was placed here as being the most convenient means of advantageously disposing of it. The settlement of the break-water during the year amounted to less than 2 inches in the older portions of the work, and to from 3 inches, increasing to 6 inches at the outer end, in last season's (1872-73) work. The whole settlement has been uniform for the last 100 yards of the extremity of the work, and has amounted to about 3 feet at the end. Little denudation of the base has occurred.

Deep-water Point Removal.

345. No actual work has been done here pending the sanction of the Government of India to the revised estimate for the completion of the work. This estimate, No. 4 of 1874-75, amounting to Rs. 4,33,485, is now before Government, but of this an expenditure, amounting to Rs. 1,96,645, has already taken place. Some experimental galleries and borings were made, and through the latter a good knowledge of the material of the rock has been arrived at.

Improving channel along the north faces of the Native Jetty.

346. A telegram authorising this work was received on the 11th February 1875, and the contract let on the 16th idem, but, being tidal work, its progress was slower than was contemplated, and the work remained incomplete at the close of the official year. More than half the work was then done, and now it is finished. A channel, 70 feet wide, has been excavated to 2 feet over datum (low-water) level: this will greatly facilitate the movements and berthing of the numerous native vessels now using the north face of the jetty, and will add much to the total available accommodation. It has been discovered, from examination of the material excavated for this work, that the deposit alongside the jetty is largely due to the clay ballast, and other refuse, such as date-leaf mats, &c., thrown overboard from the craft frequenting the pier, and not entirely to silting, as supposed. This subject has been brought before the authorities, and it is hoped the evil will be prevented in future.

New Channel Improvements.

347. The effective scour from the Chinna Creek and back-water east of the mole has surprisingly deepened the new channel, and the improvement continues. Deep water, in places amounting to 8 feet, is to be found all down the east and west channel, and the navigation is proportionately benefited; while berths never before enjoyed, are available along the south face of the Native Jetty. The width of the channel has also increased, and the sections of the whole channel tend towards the uniformity looked for by Mr. Parkes. At the same time, a quantity of the silt and mud removed from the upper parts of this channel and back-water has doubtlessly been deposited at the mouth of this channel, and in the upper waters of the Keamari anchorage. This causes a weakening and spreading of the ebb current, and so the evil is cumulative. A concentration of the current in the direction of the central line of channel and anchorage is required. The current and scour through the new channel also require control, and the banks in places need protection. This has been done more or less during the last season and in former years. Both classes of improvement have recently been provided for in an estimate which will shortly be submitted. In this estimate will be included a continuation of the pitching of the banks, completion and extension of the training groynes, and dredging a cut through the deposit or bar at the mouth of the new channel to initiate and assist a natural action of the ebb current. The ebb tide now runs off at the notch to within 10 inches of datum, being an improvement on last year of 2 inches.

The Keamari Anchorage.

347. This anchorage has silted up within the last five years to an alarming extent, and the Master Attendant reports the loss of 6 moorings therein. The amount of water-space lost since 1871 is over 10 millions of cubic feet below low-water mark (datum). To recover the lost anchorage an estimate is now under preparation, and provides for the requisite dredging.

Light and Light-house.

349. No advance has been made towards improving the lighting of the harbour.

East Pier Extension.

350. An estimate, amounting to Rs. 98,875, for the work is now before Government for sanction.

Ship Pier at Keamari.

351. A project was submitted recently for this work, with an estimate amounting to Rs. 2,91,550. The design consists of a T-shaped pier, formed of wrought-iron girders and screw piles, with ›uckled plates and asphalte covering for the platform. The head is 307 feet long, and 55 eet broad, and projects 289 feet from the shore abutment. Lines of rails connected with he Sind line are laid down on the pier, and turntables and cranes provided. Ships of 24 eet draught can lie alongside, and load in full; but this depth is to be obtained by dredging. Careful borings were taken over the site of this work off Keamari; sand was found in ll cases to a depth of 20 feet, while in the two outermost borings clay was discovered at 23 eet below the bottom, being from 41 to 43 feet below datum.

Statement showing the Expenditure on Works in charge of the Superintendent, Kurrachee Harbour Works, for the Year 1874-75.

Works.	Estimate.	Expended in 1874-75, including London Stores.	Total Expenditure up to 31st March 1875, including London Stores.
	Rs.	Rs.	Rs.
Keamari Groyne	3,01,751	...	3,01,751
Napier Mole Bridge	4,91,423	...	4,90,128
Native Jetty and Quays	4,37,334	...	4,30,677
New Channel	6,25,437	3,440	6,26,010
Chinna Creek Stoppage	1,88,290	...	1,88,273
East Pier...	1,81,499	...	1,81,423
Manora Breakwater	8,26,339	**532**	6,96,349
Deep-Water Point Removal	2,55,842	2,005	1,96,045
Tools and Plant, Special	7,99,595	2,753	7,42,060
Office Workshops and Storeyard Kurrachee	49,109	...	49,109
Ditto Manora	85,125	1,298	83,988
Repairs to Quarters	5,587	785	4,478
Harbour Surveys...	48,119	3,383	48,469
	42,95,450		40,38,760
Bar-dredging	3,81,632	61,425	3,50,984
Improving the Channel alongside the north and north walls of Native Jetty	4,186	2,744	2,744
Borings for the Ship Pier at Keamari	840	575	575
Total Rs...	46,82,108	77,876	43,93,063

F. HART, M.Inst.C.E.,
Acting Superintendent, K. H. Works.

NOTE 1.—The actual expenditure on "Manora Breakwater" was Rs. 7,463; but as materials at site were transferred to Public Works Department, Divisional, and State Railway, &c., and to the debit of Stock, the expenditure has been diminished to the extent of Rs. 7,995, so that a credit of Rs. 532 is the result in the books.

NOTE 2.—The actual expenditure on "Tools and Plant, Special," during the year likewise amounted to Rs. 11,553; but as the receipts of Rs. 8,800 realized on account of sale and transfer of articles to the State Railway were credited, the expenditure has been diminished to that extent.

No. I.

The Grants and Outlay for the Public Works of the Bombay Presidency during the year 1874-75 *(exclusive of Railways) were as follows :—*

Works.	Grant.	Outlay.	Saving.	Excess.
	Rs.	Rs.	Rs.	Rs.
Imperial, Ordinary	18,48,436	16,50,618	1,97,818	...
Do. Agricultural	26,50,169	18,90,600	7,59,569	...
Provincial Funds	23,12,904	21,63,107	1,49,797	...
Contributions	12,35,886	7,63,831	4,72,055	...
Local Funds	8,43,362	5,29,518	3,13,844	...
Total...	88,90,757	69,97,674	18,93,083	...
Establishment.				
Imperial, Ordinary	4,26,880	4,26,880	...	...
Do. Agricultural	5,82,851	6,17,893	...	35,042
Provincial Funds	8,67,486	8,92,282	...	24,796
Contributions	16,620	16,649	...	29
Local Funds	1,09,690	1,04,043	5,647	...
Total...	20,03,527	20,57,747	...	54,220
Grand Total...	1,08,94,284	90,55,421	18,38,863	...

Cost of Establishment, Rs. 20,57,747, gives a percentage of 33·01 on the expenditure Imperial, Provincial, and Local of Rs. 52,33,843. Including contributions the percentage is 29·40.

N.B.—The figures given above under Grant and Outlay are exclusive of Expenditure in England on the Ordinary and Extraordinary Grant, which amounted to Rs. 30,557, but inclusive of reductions and additions in suspense balances.

The figures shown in the column " Grant " are the modified grants, as they stood at the close of the year.

No. II.

IMPERIAL, ORDINARY.

STATEMENT showing the Grants and Outlay for Public Works under the Service Heads during the Year 1874-75.

Service Heads.	Grant.	Outlay.	Saving.	Excess.
Original Works.	Rs.	Rs.	Rs.	Rs.
Military	10,63,736	9,77,930	85,806	...
Civil Buildings	1,39,400	94,429	44,971	...
Miscellaneous Public Improvements ...	1,31,845	82,358	49,487	...
Total...	13,34,981	11,54,717	1,80,264	...
Repairs.				
Military	4,60,000	4,60,420	...	420
Civil Buildings	84,955	31,865	3,090	...
Miscellaneous Public Improvements ...	3,000	790	2,210	...
Total...	4,97,955	4,93,075	4,880	...
Establishment	4,26,880	4,26,880	...	...
Tools and Plant	15,500	2,768	12,732	...
Profit and Loss	...	58	...	58
Grand Total...	22,75,316	20,77,498	1,97,818	...

No. III.

IMPERIAL, AGRICULTURAL.

STATEMENT of Grants and Outlay for Public Works under the Service Heads during the Year 1874-75.

Service Heads.	Grant.	Outlay.	Saving.	Excess.
Extraordinary.	Rs.	Rs.	Rs.	Rs.
Original Works	9,33,964	4,06,964	5,27,000	...
Establishment	1,79,804	1,06,474	73,330	...
Tools and Plant	42,232	4,831	37,401	...
Total...	11,56,000	5,18,269	6,37,731	...
Ordinary.				
Original Works	8,58,822	7,05,641	1,53,181	...
Repairs	7,62,550	7,26,951	35,599	...
Establishment	4,03,047	5,11,419	...	1,08,372
Tools and Plant	52,601	46,089	6,512	...
Profit and Loss	...	124	...	124
Total...	20,77,020	19,90,224	86,796	...
Grand Total, Extraordinary and Ordinary...	32,33,020	25,08,493	7,24,527	...

No. IV.

PROVINCIAL.

STATEMENT showing the Grants and Outlay for Public Works under the Service Heads during the year 1874-75.

Service Heads.	Grant.	Outlay.	Saving.	Excess.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	11,20,414	10,27,585	92,829	...
Communications	4,90,789	4,43,284	47,505	...
Miscellaneous Public Improvements ...	43,938	34,204	9,734	...
Total...	16,55,141	15,05,073	1,50,068	...
Repairs.				
Civil Buildings	2,57,413	2,57,311	102	...
Communications	3,50,350	3,50,350	...	...
Miscellaneous Public Improvements ...	15,000	14,125	875	...
Total...	6,22,763	6,21,786	977	...
Establishment	8,67,486	8,92,282	...	24,796
Tools and Plant	35,000	34,135	865	...
Profit and Loss	...	2,113	...	2,113
Total...	31,80,390	30,55,389	1,25,001	...

No. V.

ABSTRACT of Expenditure from Contributions during the Year 1874-75.

Service Heads.	Contribution.	Outlay.	Saving.	Excess.
Original Works.	Rs.	Rs.	Rs.	Rs.
Military	7,075	327	6,748	...
Agricultural	11,091	11,020	71	...
Civil Buildings	3,49,892	2,03,280	1,46,612	...
Communications	2,86,342	56,523	2,29,819	...
Miscellaneous Public Improvements ...	6,816	5,583	1,233	...
Total...	6,61,216	2,76,733	3,84,483	...
Repairs.				
Military	292	292	...	...
Agricultural	16,406	8,629	7,777	...
Civil Buildings	1,455	1,434	21	...
Communications	5,53,791	4,75,528	78,263	...
Miscellaneous Public Improvements ...	2,726	1,215	1,511	...
Total...	5,74,670	4,87,098	87,572	...
Establishment	16,620	16,649	...	29
Grand Total...	12,52,506	7,80,480	4,72,026	...

No. VI.

LOCAL.

STATEMENT showing the Grants and Outlay for Public Works under Service Heads during the Year 1874-75.

Service Heads.	Grant.	Outlay.	Saving.	Excess.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	1,07,019	63,760	43,259	...
Communications	3,48,742	2,03,864	1,44,878	...
Miscellaneous Public Improvements ...	2,11,970	1,05,874	1,06,096	...
Total...	6,67,731	3,73,498	2,94,233	...
Repairs.				
Civil Buildings	2,774	2,764	10	...
Communications	1,19,632	1,14,415	5,217	...
Miscellaneous Public Improvements ...	47,875	35,146	12,729	...
Total...	1,70,281	1,52,325	17,956	...
Establishment	1,09,690	1,04,043	5,647	...
Tools and Plant	5,350	3,695	1,655	...
Grand Total...	9,53,052	6,33,561	3,19,491	...

No. VII.

ABSTRACT of Expenditure from Grants-in-aid to Provincial Works from Local Funds during the year (taken from Statement No. VI.)

Service Heads.	Contributions.	Outlay.	Saving.	Excess.
Original Works.	Rs.	Rs.	Rs.	Rs.
Civil Buildings	7,980	4,740	3,240	...
Establishment	1,01,990	95,905	6,085	...
Total...	1,09,970	1,00,645	9,325	...

No. VIII.

ABSTRACT of Expenditure from all descriptions of Funds during the Year 1874-75.

Service Heads.	Imperial.	Provincial.	Grants-in-aid from Local Funds.	Contributions.	Local.	Total.
Original Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Military	9,77,930	...	...	327	...	9,78,257
Agricultural	11,12,605	...	...	11,020	...	11,23,625
Civil Buildings... ...	94,429	10,27,585	4,740	2,03,280	59,020	13,89,054
Communications ...	...	4,43,284	...	56,523	2,03,864	7,03,671
Miscellaneous Public Improvements	82,358	34,204	...	5,583	1,05,874	2,28,019
Total...	22,67,322	15,05,073	4,740	2,76,733	3,68,758	44,22,626
Repairs.						
Military	4,60,420	...	...	292	...	4,60,712
Agricultural	7,26,951	...	...	8,629	...	7,35,580
Civil Buildings... ...	31,865	2,57,311	...	1,434	2,764	2,93,374
Communications ...	...	3,50,350	...	4,75,528	1,14,415	9,40,293
Miscellaneous Public Improvements	790	14,125	...	1,215	35,146	51,276
Total...	12,20,026	6,21,786	...	4,87,098	1,52,325	24,81,235
Establishment	10,44,773	8,92,282	95,905	16,649	8,138	20,57,747
Tools and Plant ...	53,688	34,135	...	...	3,695	91,518
Profit and Loss... ...	182	2,113	...	...	...	2,295
Grand Total...	45,85,991	30,55,389	1,00,645	7,80,480	5,32,916	90,55,421

No. IX.

IMPERIAL.

STATEMENT showing the details of Statements Nos. II. and III.

		Total of each Station.		
		Original Works.	Repairs.	Total.
	Military.	Rs.	Rs.	Rs.
Buildings for the accommodation of European Troops.	Abú	18,791	4,951	23,742
	Aden	20,546	21,341	41,887
	Ahmedabad	30,471	5,954	36,425
	Ahmednagar	1,854	14,453	16,307
	Baroda	3,153	14,700	17,853
	Belgaum	78,669	14,187	92,856
	Bhuj	...	440	440
	Bombay	696	31,975	32,671
	Deoláli	35,578	20,799	56,377
	Deesa	599	11,108	11,707
	Ganesh Khind...	...	705	705
	Gizri	...	245	245
	Hyderabad	3,266	9,564	12,830
	Jacobabad	...	707	707
	Kurrachee	4,571	17,603	22,174
	Khandala	...	5,494	5,494
	Kirkee	32,597	8,566	41,163
	Colaba	1,87,228	22,348	2,09,576
	Kolhapur	...	50	50
	Málegaon	159	533	692
	Poona, Ghorepuri and Wanowri ...	85,946	35,427	1,21,373
	Purandhar	20,944	6,423	27,367
	Sukkur	...	409	409
	Satara	8,304	4,274	12,878
	Sholapur	...	741	741
	Sirur	...	727	727
	Surat	...	150	150
	Tithal	...	483	483
	Vengurla	...	68	68
	Total...	5,33,672	2,54,425	7,88,097
Buildings for the accommodation of Native Troops.	Aden	23,538	8,042	31,580
	Ahmedabad	870	733	1,603
	Ahmednagar	111	481	592
	Bandora	152	249	401
	Baroda	273	547	820
	Belgaum	3,527	522	4,049
	Bhuj	1,158	19	1,177
	Carried forward...	29,629	10,593	40,222

		Total of each Station.		
		Original Works.	Repairs.	Total.
		Rs.	Rs.	Rs.
	Brought forward...	29,629	10,593	40,222
	Military—continued.			
Buildings for the accommodation of Native Troops.	Bombay	273	23,392	23,665
	Dharwar	12,547	897	13,444
	Deesa	2,649	678	3,327
	Ganesh Khind...	...	1,564	1,564
	Haidrabad	194	2,257	2,451
	Jacobabad	37,772	4,649	42,421
	Kaladgi	...	180	180
	Kurrachee	1,875	5,440	7,315
	Kashmore	...	262	262
	Kirkee	84,975	1,485	86,460
	Colaba	8	...	8
	Kolhapur	...	1,842	1,842
	Málegaon	...	464	464
	Poona	300	6,438	6,738
	Rajkot	671	1,171	1,842
	Sunri	...	458	458
	Satara	...	1,649	1,649
	Sholapur	34	412	446
	Surat	1,587	1,134	2,721
	Tanna	13,487	6,570	20,057
	Toj	...	256	256
	Vengurla	...	110	110
	Total...	1,86,001	71,901	2,57,902
Ordnance		72,243	35,290	1,07,533
Commissariat		57,903	11,600	69,503
Fortifications		19,562	8,323	27,885
Cantonment Works		1,13,353	71,227	1,84,580
Staff		4,097	1,899	5,996
Naval		4,440	5,755	10,195
		9,91,271	4,60,420	14,51,691
Less—Reduction in Suspense Balances ...		13,341	...	13,341
	Total...	9,77,930	4,60,420	14,38,350
	Civil Buildings.			
Mint		644	1,871	2,515
Salt		807	...	807
Post		55,998	6,074	62,072
Telegraph		36,775	21,645	58,420
Currency		205	181	386
Miscellaneous		...	2,094	2,094
	Total...	94,429	31,865	1,26,294

	Total of each Station.		
	Original Works.	Repairs.	Total.
Miscellaneous Public Improvements.	Rs.	Rs.	Rs.
Harbours	75,693	...	75,693
Light-houses	9,383	790	10,173
	85,076	790	85,866
Less—Reduction in Suspense Balances ...	2,718	...	2,718
Total...	82,358	790	83,148
Tota Works	11,54,717	4,93,075	16,47,792
Establishment	...	...	4,26,880
Tools and Plant	...	...	2,768
Profit and Loss	...	...	53
Grand Total...	...	...	20,77,498
Irrigation—Extraordinary.			
Bigari Canal	27,503	...	...
Ekruk Tank	3,677	...	...
Hathmati Canal	27,170	...	...
Krishna do.	394	...	...
Lakh do.	50	...	...
Mitrow do. (Eastern Nara Works) ...	12,878	...	...
Muta do.	2,68,724	...	...
Palkhair do.	5,851	...	...
Panjar (Mukti) Canal	8,159	...	...
Sukkur Canal	53,961	...	...
	...	...	4,08,367
Less—Decrease in Suspense Balance, and add Receipts on Capital Account	...	...	1,403
	...	...	4,06,964
Establishment	...	...	1,06,474
Tools and Plant	...	...	4,831
Total...	...	...	5,18,269
Agricultural—Ordinary.			
Alibhar Canal Project Survey	129	...	...
Alibhar Kutcherry Canal	4,695	9,629	...
Carried over...	4,566	9,629	

	Total of each Station.		
	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.
Brought over...	4,566	9,629	
Agricultural—Ordinary—continued.			
Bhatowdi Tank	727	431	...
Desert Canal	1,10,724	8,477	...
Eastern Nara Works	19,864	66,213	...
Fulaili Canal	29,408	1,13,408	...
Ghar do.	2,871	36,155	...
Hartala Tank	1,214	...	...
Hathmati Canal	1,212	1,212	...
Kashmore and Bigari bunds	3,26,156	...	...
Madak Tank	700	1,083	...
Maini do.	14,214	...	...
Marak Canal, Great	60,432	14,518	...
Mhaswa Tank	9,810	...	...
Panjar Canal	182	...	...
Panjari do.	12,624	33,368	...
Western Nara	41,107	24,545	...
Wozar Canal	6,833	...	...
Sukkur do	15,467	51,804	...
Tapti do	53	38 22	...
Bagaur do.	3,323	4,940	...
Bigari do.	...	48,867	...
Dadwah	...	10,088	...
Dengrawah	...	2,184	...
Dherwah	...	3,982	...
Ekruk Tank	4,460	5,778	...
Ganjbhar	...	2,540	...
Gharo No. 1	...	5,113	...
Do. Large	402	19,005	...
Girna Canal	...	3,788	...
Gondur do.	...	2,457	...
Jamda do.	939	2,647	...
Joneswah	...	2,296	...
Khari Shumali	...	6,169	...
Khanta Great No. LXXXII.	...	6,587	...
Koraiwah	...	4,911	...
Krishna Canal	...	5,790	...
Kulri	431	7,624	...
Lakh Canal	473	3,497	...
Mulchand	...	3,363	...
Muta Canal	...	9,312	...
Mutni	1,859	271	...
Nara Supply Channel (Eastern Nara) ...	...	4,129	...
Nasirwah	...	5,714	...
Nasrat	...	2,097	...
Nowlaki	...	20,400	...
Panch Gaza Kalan	3,238	1,703	...
Rheinwah	...	6,187	...
Carried over...	6,73,289	5,59,918	

	Total of each Station.		
	Original Works.	Repairs.	Total.
	Rs.	Rs.	Rs.
Brought over...	6,73,289	5,59,918	
Agricultural—Ordinary—continued.			
Sarfrazwah	...	3,632	...
Sata	...	8,545	...
Sian	2,673	467	...
Sind Canal	...	20,579	...
Canals in the Belgaum Collectorate... ...	1,390	2,418	...
Do. Guzerat do.	756	2,217	...
Do. Haidarabad do.	886	19,144	...
Do. Kurrachee do.	5,625	31,532	...
Do. Khandesh do.	316	10,919	...
Do. Poona do.	52	569	...
Do. Ratnágiri do.	...	170	...
Do. Satara do.	...	2,663	...
Do. Shikarpur do.	5	4,288	...
Ordinary Agricultural Works ...	19,435	59,890	...
	7,04,427	7,26,951	14,31,378
Add—Increase in Suspense Balance, and deduct Receipts on Capital Account ...	1,214	...	1,214
	7,05,641	7,26,951	14,32,592
Establishment	...	...	5,11,419
Tools and Plant	...	...	46,089
Profit and Loss	...	...	124
Total...	...	...	19,90,224

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No. X.

PROVINCIAL.

STATEMENT showing the details of Expenditure of Statement No. IV.

Details.	Total of each Class.		
	Original Works.	Repairs.	Total.
Civil Buildings.	Rs.	Rs.	Rs.
Revenue	1,49,030	66,101	2,15,131
Customs	5,985	6,563	12,548
Salt	93,232	1,381	94,613
Ecclesiastical	20,903	20,230	41,133
Educational	34,471	12,559	47,030
Government Houses, Residencies	12,018	36,195	48,213
Secretariat	12,957	3,016	15,973
Public Works	3,078	14,524	17,602
Charitable Institutions	1,31,691	24,553	1,56,244
Miscellaneous	24,370	7,351	31,721
Police	57,206	24,337	81,543
Courts	3,44,031	20,934	3,64,965
Jails	1,32,346	19,567	1,51,913
	10,21,318	2,57,311	12,78,629
Add—Increase in Stock Balance	6,267	...	6,267
Total...	10,27,585	2,57,311	12,84,896
Communications.			
Roads, &c.	2,98,580	3,40,020	6,38,600
Bridges	1,44,704	10,330	1,55,034
Total...	4,43,284	3,50,350	7,93,634
Miscellaneous Public Improvements.			
Improvements to Towns	11,820	3,608	15,428
Water supply	6,463	1,270	7,733
Harbours and Light-houses	15,921	9,247	25,168
Total...	34,204	14,125	48,329
Total Works	15,05,073	6,21,786	21,26,859
Establishment	...	...	8,92,282
Tools and Plant	...	...	34,135
Profit and Loss	...	...	2,113
Grand Total...	...	...	30,55,389

J. G. MELLISS, Lieut.-Colonel, S. C.,
Controller of Public Works Accounts.

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